

*CHANNEL, 1998b1*

SFUND RECORDS CTR  
44897



DEPARTMENT OF THE AIR FORCE  
AIR FORCE RESEARCH LABORATORY  
WRIGHT-PATTERSON AIR FORCE BASE OHIO 45433

26 OCT 98

MEMORANDUM FOR EPA  
NCEA (MD-52)  
RTP, NC 27711  
ATTN: Annie Jarabek

FROM: AFRL/HEST  
2856 G Street  
Wright-Patterson AFB OH 45344-7400

SUBJECT: Consultative Letter, AFRL-HE-WP-CL-1998-0027 , Morphometric Analysis Report – Thyroid: A Neurobehavioral Developmental Study of Ammonium Perchlorate Administered Orally in Drinking Water to Rats

MORPHOMETRIC ANALYSIS REPORT – THYROID: Combined (1) 5-day old and  
(2) Post Natal Day (PND) 90-92 Subset 2 Groups

A NEUROBEHAVIORAL DEVELOPMENTAL STUDY OF AMMONIUM PERCHLORATE ADMINISTERED ORALLY IN DRINKING WATER TO RATS

---

Study Pathologist: William H. Baker

1. Design:

The following are final results of two separate morphometric studies assessing thyroid follicle lumen size in 5-day old and 90-day old rat pups born to dams exposed to daily oral intake of 10, 3, 1, 0.1, or 0 mg/kg of ammonium perchlorate in a neurobehavioral development study performed by Argus Laboratories (Argus 1613-002). The animals in these studies were litter mates, the 5-day old pups representing pups culled from litters in preparation for the 90 post natal evaluation. These 5-day old pups

had been exposed to test agent during the entire gestational period and may have received exposure to decreasing quantities through ingestion of their mother's milk for the 5 days prior to culling. The pups in the post natal evaluation cohort were observed for a 90-day recovery period during which there was no further exposure to the test agent. Thyroid samples were collected by Argus Laboratories at culling and at the termination of the 90-day observation period. Samples were fixed in 10% neutral buffered formalin, and shipped to the Operational Toxicology Branch (OTB). Selection of thyroids for examination was accomplished by randomizing the samples from each treatment group using a computer program for randomization. Separate randomization was done for selection of males and females. A translation table is provided at Tab 1 in order to relate OTB identification numbers to those of Argus Laboratories. Designs for both studies were the same and an example is given below:

<u>GROUP</u>	<u>DOSE</u>	<u>NUMBER OF ANIMALS</u>	
		<u>MALES</u>	<u>FEMALES</u>
1	10.0 mg/kg	10	10
2	3.0 mg/kg	10	10
3	1.0 mg/kg	10	10
4	0.1 mg/kg	10	10
5	Control	10	10

## 2. Morphometry:

From each thyroid, three histological sections were taken, mounted on glass slides, and stained with hematoxylin eosin. In a blinded study, follicle counts and follicle lumen area determinations were done in one 40x field/each of three separate sections of thyroid per animal. Briefly, a Leica Quantimet 570C Image Analysis System was used with an Olympus Light Microscope fitted with a Sony (DXC-760MD) CCD camera. The system was calibrated using an American Optical 0.02mm calibration scale. The image of each 40x field was captured and processed for follicle count and lumen area determination. The mean thyroid follicular lumen area represents the mean area of all follicular lumens measured from the three histological sections sampled from each rat and is expressed in  $\mu\text{m}^2$ . These data are presented below. Follicle lumen area was selected as the end point for these studies because of the ease of detection of this region in digitized images. Ease of detection was a function of the distinct contrast of the colloid region with the surrounding follicular epithelium and limited interstitial regions. Due to normal variations in thyroid microscopic anatomy, i.e., variably shaped and sized follicles, the number of follicles sampled per section (per 40x field) per individual was not equal.

### **3. Results:**

The mean follicular lumen areas for all treatment groups from both studies are presented in the two tables below. The raw data of area measurements are provided at Tabs 2a, 2b, 2c, and 2d for the male and female data of the 5-Day Old Rat Pup Study, and male and female data of the PND-90-92 Study, respectively. Mean follicular counts per animal by group and sex are provided at Tab 3. These data were analyzed using a t-test or Mann-Whitney Rank Sum Test (M-WRST), and a one way Analysis of Variance using SigmaStat by Jandel Scientific. Results of the statistical treatments for the 5-Day Old Rat Pup Study and the PND-90-92 Study are at Tab 4a and 4b, respectively. Graphic presentations of results are at Tabs 5a and 5b, respectively.

#### **A. 5-Day Old Pup Study      Mean ( $\pm$ SD) Follicular Lumen Area in Square Micrometers**

	<u>0 mg/kg</u>	<u>0.1 mg/kg</u>	<u>1 mg/kg</u>	<u>3 mg/kg</u>	<u>10 mg/kg</u>
Females	320.66 $\pm$ 82.56	264.70 $\pm$ 63.18	255.20 $\pm$ 74.69	235.59 $\pm$ 132.05	211.44 $\pm$ 119.96*
Males	315.00 $\pm$ 50.45	255.03 $\pm$ 38.19*	290.78 $\pm$ 143.21	208.41 $\pm$ 46.14*	209.70 $\pm$ 73.77*

\* Significantly different from controls ( $P < 0.05$ ) based on t-test or M-WRST.

#### **B. PND 90-92 Study      Mean ( $\pm$ SD) Follicular Lumen Area in Square Micrometers**

	<u>0 mg/kg</u>	<u>0.1 mg/kg</u>	<u>1 mg/kg</u>	<u>3 mg/kg</u>	<u>10 mg/kg</u>
Females	1394.05 $\pm$ 518.86	1550.31 $\pm$ 726.21	1762.03 $\pm$ 784.35*	1281.35 $\pm$ 612.27	1566.51 $\pm$ 450.15**
Males	1274.62 $\pm$ 472.35	963.58 $\pm$ 357.57	1014.91 $\pm$ 230.26	911.02 $\pm$ 382.33	1199.14 $\pm$ 466.20

\*Significantly greater than the observation in males at 1 mg/kg ( $P = 0.0091$ ) based on t-test or M-WRST.

\*\*Significantly greater than the observation in males at 10 mg/kg ( $P = 0.0312$ ) based on t-test or M-WRST.

### **4. Comments:**

A previous morphometric study, by this laboratory, investigating thyroid effects of ammonium perchlorate, demonstrated a statistically significant, dose related decrease in thyroid follicular size in animals dosed with 250 mg/kg, 50 mg/kg, 12.5 mg/kg compared with controls (Eggers, J). At the levels of exposure used in this current study, a similar dose-response relationship was apparent for 5-day old male and female pups. The observations in females generated a smooth dose-response curve demonstrating a significant decrease in follicular lumen size in the high dose group (10 mg/kg) when compared to controls ( $P = 0.0291$ ). The graphic

tracing of responses in males was not as optimum. Although a dose-response was evident, there were notably larger follicular lumens in the 1 mg/kg dose group that did not significantly differ in size from controls ( $P = 0.6200$ ). Other dose groups, however, demonstrated a significant decrease in follicular lumen size compared to controls with P values of 0.0077, 0.0001, and 0.0015 for the 0.1, 3, and 10 mg/kg groups, respectively. Values at these three dose levels generate a dose-response curve that paralleled the response noted in the female pups. The presence of outlying observations is the explanation offered in part for the disparity in the 1 mg/kg group response (note the large standard deviation above and the large error bars with extraneous observations graphed on the boxplots at Tab 5a). The 1 mg/kg peak was first evident in a more exaggerated state when preliminary analyses were made following assessment of 6 thyroids per dose group per sex. With the inclusion of 4 additional observations, this peak has been damped. Analysis of additional samples may assist in clarifying the response at this dose level in males. There was no statistical difference in follicle lumen sizes between the males and females by dose group in the 5-day old rat pups (all P values > 0.4949).

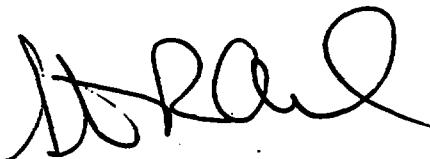
As noted above, at 5 days of age, female and male litter mates demonstrated a dose-response related decrease in the size of thyroid follicles lumens. The recovery cohort, however, after 90 days withdrawal from agent exposure, showed no significant differences between dosage groups and controls for the females or males. Follicle lumen sizes between the males and females by dose group demonstrated no significant difference except at the 1 and 10 mg/kg dose levels where the female follicular lumens were significantly larger than those of the males ( $P = 0.0091$  and 0.0312, respectively). All above statistical comparisons were made using a t-test or M-WRST.

5. **Reference:**

Eggers, J. 1995. Toxicity evaluation of ammonium perchlorate administered in the drinking water of Sprague-Dawley rats. Study A10. A Narrative Pathology Report – Pilot Study.

6. **Acknowledgment:** I gratefully acknowledge Ms. Peggy Parrish's efforts as necropsy and histology technician. Without her assistance this work would not have been possible.

Scientific POC for this report is Dr. William H. Baker, Pathologist, AFRL/HEST, Wright-Patterson AFB, OH (937) 255-5150, ext 3110, E-Mail: [bakerw@falcon.al.wpafb.af.mil](mailto:bakerw@falcon.al.wpafb.af.mil)



Stephen R. Channel, Maj., USAF, BSC  
Chief, Operational Toxicology Branch  
Human Effectiveness Directorate

## Table of Contents

Body of Report		pg 1-4
Tab 1	Translation Table	pg 5
Tab 2a	Raw Data Females 5-Day Old Rat Study	pg 7
Tab 2b	Raw Data Males 5-Day Old Rat Study	pg 28
Tab 2c	Raw Data Females PND-90-92 Study	pg 50
Tab 2d	Raw Data Males PND-90-92 Study	pg 60
Tab 3	Mean Thyroid Follicular Counts per Animal by Group and Sex	pg 70
Tab 4a	Statistical Worksheets for 5-Day Old Rat Study	pg 71
Tab 4b	Statistical Worksheets for PND-90-92 Study	pg 86
Tab 5a	Graphs 5-Day Old Rat Study	pg 101
Tab 5b	Graphs PND-90-92 Rat Study	pg 104

**TAB 1**  
**Translation Table**  
**Left Column Argus Lab Designation**  
**Right Column Wright-Patterson Accession Number**

**25F - 5-Day Old**

**Pups**

**FEMALES**

<b>Control</b>	<b>0.1 mg/kg</b>	<b>1.0mg/kg</b>	<b>3.0 mg/kg</b>	<b>10mg/kg</b>
19558 B102-98	19511 B085-98	19567 B078-98	19525 B068-98	19529 B058-98
19523 B096-98	19527 B087-98	19587 B079-98	19557 B070-98	19532 B066-98
19549 B097-98	19533 B088-98	19588 B080-98	19573 B071-98	19551 B059-98
19571 B098-98	19534 B089-98	19592 B081-98	19612 B072-98	19564 B061-98
19608 B099-98	19602 B093-98	19596 B082-98	19622 B073-98	19591 B064-98
19621 B101-98	19609 B094-98	19597 B083-98	19623 B074-98	19601 B065-98
<b>19526 382-98</b>	<b>19501 365-98 *</b>	<b>19538 353-94 *</b>	<b>19522 338-98 *</b>	<b>19502 323-98</b>
<b>19561 385-98</b>	<b>19536 369-98 *</b>	<b>19579 358-98 *</b>	<b>19569 342-98 *</b>	<b>19512 324-98</b>
<b>19582 388-98</b>	<b>19566 371-98 *</b>	<b>19603 362-98 *</b>	<b>19581 344-98 *</b>	<b>19543 327-98</b>
<b>19610 390-98</b>	<b>19594 374-98 *</b>	<b>19616 364-98 *</b>	<b>19623 350-98 *</b>	<b>19595 334-98</b>

**MALES**

<b>Control</b>	<b>0.1 mg/kg</b>	<b>1.0mg/kg</b>	<b>3.0 mg/kg</b>	<b>10mg/kg</b>
19519 A095-98	19511 A085-98	19504 A075-98	19506 A067-98	19528 A057-98
19523 A096-98	19514 A086-98	19521 A076-98	19525 A068-98	19529 A058-98
19549 A097-98	19527 A087-98	19539 A077-98	19554 A069-98	19560 A060-98
19571 A098-98	19576 A090-98	19588 A080-98	19573 A071-98	19572 A062-98
19610 A100-98	19594 A091-98	19596 A082-98	19612 A072-98	19574 A063-98
19621 A101-98	19599 A092-98	19607 A084-98	19623 A074-98	19601 A065-98
<b>19558 309-98</b>	<b>19533 297-98 *</b>	<b>19555 282-98 *</b>	<b>19545 270-98 *</b>	<b>19502 253-98</b>
<b>19526 314-98</b>	<b>19566 301-98 *</b>	<b>19579 286-98 *</b>	<b>19569 273-98 *</b>	<b>19541 257-98</b>
<b>19561 317-98</b>	<b>19590 303-98 *</b>	<b>19586 288-98 *</b>	<b>19617 278-98 *</b>	<b>19546 259-98</b>
<b>19585 321-98</b>	<b>19605 306-98 *</b>	<b>19603 293-98 *</b>	<b>19622 280-98 *</b>	<b>19613 265-98</b>

**TAB 1**  
**continued**

**25F - PND-90-**

**92**

**FEMALES**

<b>Control</b>		<b>0.1 mg/kg</b>		<b>1.0mg/kg</b>		<b>3.0 mg/kg</b>		<b>10mg/kg</b>	
1808	178-98	1818	184-98	1815	190-98	1819	196-98	1843	202-98
1822	179-98	1846	185-98	1821	191-98	1832	197-98	1848	203-98
1862	180-98	1856	186-98	1825	192-98	1864	198-98	1866	204-98
1877	181-98	1863	187-98	1844	193-98	1874	199-98	1878	205-98
1894	182-98	1869	188-98	1849	194-98	1876	200-98	1893	206-98
1896	183-98	1871	189-98	1861	195-98	1897	201-98	1898	207-98
<b>1836</b>	<b>536-98</b>	<b>1805</b>	<b>540-98</b>	<b>1816</b>	<b>544-98</b>	<b>1807</b>	<b>548-98</b>	<b>1810</b>	<b>552-98</b>
<b>1857</b>	<b>537-98</b>	<b>1855</b>	<b>541-98</b>	<b>1830</b>	<b>545-98</b>	<b>1829</b>	<b>549-98</b>	<b>1824</b>	<b>553-98</b>
<b>1870</b>	<b>538-98</b>	<b>1882</b>	<b>542-98</b>	<b>1880</b>	<b>546-98</b>	<b>1845</b>	<b>550-98</b>	<b>1840</b>	<b>554-98</b>
<b>1885</b>	<b>539-98</b>	<b>1895</b>	<b>543-98</b>	<b>1892</b>	<b>547-98</b>	<b>1865</b>	<b>551-98</b>	<b>1852</b>	<b>555-98</b>

**MALES**

<b>Control</b>		<b>0.1 mg/kg</b>		<b>1.0mg/kg</b>		<b>3.0 mg/kg</b>		<b>10mg/kg</b>	
1531	148-98	1575	154-98	1503	160-98	1501	166-98	1527	172-98
1547	149-98	1506	155-98	1517	161-98	1526	167-98	1552	173-98
1567	150-98	1511	156-98	1542	162-98	1533	168-98	1573	174-98
1568	151-98	1555	157-98	1554	163-98	1539	169-98	1584	175-98
1570	152-98	1556	158-98	1558	164-98	1574	170-98	1593	176-98
1577	153-98	1569	159-98	1561	165-98	1587	171-98	1594	177-98
<b>1508</b>	<b>516-98</b>	<b>1513</b>	<b>520-98</b>	<b>1509</b>	<b>524-98</b>	<b>1507</b>	<b>528-98</b>	<b>1510</b>	<b>532-98</b>
<b>1562</b>	<b>517-98</b>	<b>1546</b>	<b>521-98</b>	<b>1535</b>	<b>525-98</b>	<b>1532</b>	<b>529-98</b>	<b>1524</b>	<b>533-98</b>
<b>1586</b>	<b>518-98</b>	<b>1563</b>	<b>522-98</b>	<b>1549</b>	<b>526-98</b>	<b>1551</b>	<b>530-98</b>	<b>1543</b>	<b>534-98</b>
<b>1596</b>	<b>519-98</b>	<b>1582</b>	<b>523-98</b>	<b>1591</b>	<b>527-98</b>	<b>1565</b>	<b>531-98</b>	<b>1578</b>	<b>535-98</b>

**TAB 2a**

## Females - Group 1 (10mg)

## 5-Day Old Rat Study

58B	59B	61B	64B	65B	66B	323	324	327	334
533.49	331.20	283.12	107.25	203.66	196.42	26.64	89.17	32.05	218.94
126.17	133.55	396.53	105.19	249.10	317.64	30.39	204.22	169.41	290.95
422.33	243.67	513.64	147.52	339.16	336.13	83.25	121.63	188.97	63.68
1120.13	343.94	476.25	119.99	169.58	74.79	134.86	138.89	38.71	53.28
683.19	500.90	276.55	144.64	326.99	198.47	86.58	140.94	36.63	163.58
279.12	160.67	311.06	385.85	1003.29	165.19	101.15	88.76	270.97	218.52
564.32	370.64	387.90	139.30	430.44	122.45	82.41	71.91	27.89	322.58
369.18	380.92	46.43	90.81	348.90	118.34	48.70	111.36	122.79	78.25
2269.87	227.65	21.37	119.58	181.35	47.26	152.76	112.59	32.88	70.76
223.13	637.74	250.66	349.28	217.86	73.14	152.76	159.44	81.17	147.76
263.70	215.32	410.09	52.60	335.92	183.68	150.68	113.82	70.34	130.70
430.44	345.99	170.12	303.25	184.19	95.33	117.38	58.35	259.73	89.91
464.93	245.73	386.26	131.90	431.66	164.37	59.94	372.29	23.73	156.09
521.32	292.16	317.23	139.30	320.50	69.86	172.74	397.35	45.37	57.86
384.19	130.67	343.11	624.18	223.94	66.98	143.18	99.85	22.89	115.71
211.77	249.84	70.27	323.39	162.68	92.87	41.21	80.54	89.49	115.30
256.81	324.21	357.08	50.54	445.05	48.08	185.22	27.12	149.84	146.93
1113.64	670.61	286.82	216.96	466.15	43.97	93.24	63.69	116.96	182.31
418.68	502.14	97.39	112.18	368.78	32.87	77.00	66.57	76.59	287.20
286.83	290.52	149.98	92.87	378.92	27.94	63.68	67.80	141.52	163.16
534.30	412.97	592.54	141.77	253.56	82.18	159.83	70.58	218.52	57.86
204.47	168.48	417.49	462.28	204.88	45.61	91.16	38.22	49.95	48.70
145.65	300.38	219.43	215.73	130.23	87.94	31.22	210.39	91.57	199.38
171.61	249.01	48.90	92.87	136.31	148.75	47.87	120.40	39.96	298.02
1362.73	246.55	283.53	415.02	290.07	49.72	161.08	41.50	84.50	334.65
382.98	262.57	189.02	176.28	363.50	66.57	69.51	313.94	82.83	286.37
535.92	281.48	387.90	124.10	135.50	173.82	181.48	22.60	271.80	321.33
371.21	112.59	286.00	348.87	146.05	41.09	101.15	274.49	67.43	353.80
702.67	483.24	153.27	194.77	140.37	78.90	178.56	173.00	71.59	280.96
481.97	446.66	372.70	241.21	184.19	25.07	197.29	179.16	153.17	120.29
197.17	297.91	209.98	237.51	46.66	23.01	104.89	97.80	149.01	216.44
147.27	323.39	377.22	601.99	88.85	229.29	64.52	59.99	181.06	235.59
660.88	574.05	361.19	258.05	422.74	25.07	140.27	168.89	134.44	181.06
318.88	573.23	591.31	137.25	522.54	85.88	175.23	250.25	157.75	133.20
698.61	228.47	239.56	87.53	264.51	172.58	81.58	97.80	260.98	119.04
469.80	466.39	318.87	72.73	184.19	57.53	192.30	333.25	309.26	50.36
880.36	161.08	159.02	103.14	53.96	152.45	114.05	200.12	225.18	174.40
600.02	120.81	152.45	119.99	195.95	24.66	385.43	166.83	20.40	54.53
335.11	254.77	409.27	219.84	193.11	20.14	307.60	34.93	186.06	124.04

806.12	267.09	229.70	82.59	106.29	216.96	357.54	42.32	181.89	118.63
759.06	236.28	452.01	183.68	124.95	237.51	62.02	78.07	27.47	129.87
357.82	579.80	404.75	258.88	164.71	23.42	278.88	41.91	186.06	398.75
488.05	79.31	520.22	196.42	223.54	129.44	86.16	38.22	70.76	35.80
606.52	352.56	194.77	60.40	288.45	226.82	297.19	86.70	98.65	85.74
264.51	235.87	222.72	318.87	333.89	113.82	19.56	30.00	86.16	250.99
227.60	205.05	115.47	120.81	910.79	103.55	183.56	55.88	19.56	86.16
641.81	262.57	133.89	49.72	242.20	114.23	166.91	104.78	39.13	74.09
2211.85	87.94	352.98	182.45	308.33	249.84	110.30	37.80	299.69	101.98
308.74	304.90	320.10	115.06	417.46	326.68	65.77	32.46	82.00	198.54
582.99	60.82	239.97	174.23	210.15	272.44	48.70	90.40	62.85	161.08
239.36	140.94	344.35	116.29	189.87	131.08	102.39	90.81	35.80	76.17
279.12	193.95	237.10	111.36	362.29	120.81	97.40	81.77	313.42	164.83
245.04	527.61	392.42	121.22	263.70	319.69	95.32	108.48	81.58	61.19
51.93	205.87	415.02	166.42	90.88	147.93	160.25	112.59	81.17	134.44
544.04	198.47	327.91	202.17	280.34	53.83	138.61	157.38	101.56	107.39
663.72	85.06	485.29	110.95	217.86	216.14	94.49	189.02	72.43	38.29
400.42	137.25	310.24	23.42	310.76	216.14	149.84	118.75	89.91	161.50
300.22	60.82	215.32	412.15	324.56	16.03	29.55	94.92	44.54	120.29
548.50	296.27	550.21	37.39	129.01	290.93	109.47	21.37	75.75	80.33
238.14	185.32	420.78	104.78	348.09	129.03	82.41	89.99	79.50	232.26
283.18	133.96	191.90	158.61	137.13	173.41	136.11	17.26	55.78	128.62
574.87	86.29	299.97	130.67	101.42	158.20	122.79	77.66	241.83	131.11
307.11	24.24	73.55	324.62	499.82	58.35	51.20	38.63	71.18	128.20
610.17	131.90	428.58	81.77	79.52	74.79	134.03	30.00	68.68	68.68
599.62	124.51	327.50	363.66	247.07	154.09	62.44	57.53	89.49	345.47
634.10	268.33	220.25	122.45	169.58	45.20	131.53	56.30	161.50	42.46
378.11	140.12	540.76	79.72	242.20	223.13	226.85	36.16	74.92	128.20
334.70	177.10	274.49	93.28	126.98	27.53	149.84	59.17	94.90	252.24
829.65	109.71	566.65	37.80	565.13	234.63	270.55	172.17	66.18	296.77
604.08	81.77	381.74	108.89	245.85	65.34	164.00	69.44	73.67	118.21
54.36	207.51	467.21	217.37	370.00	158.61	96.15	96.15	248.49	483.66
173.23	101.09	1047.42	219.84	348.09	75.20	339.23	54.24	251.41	71.18
41.79	166.42	590.48	280.65	166.34	487.76	351.30	101.50	29.55	216.44
487.65	134.37	60.82	215.32	66.94	44.79	371.70	27.94	185.22	59.11
488.46	78.49	140.12	298.73	195.14	150.81	329.24	42.74	215.61	173.99
1966.81	129.85	338.18	106.84	349.30	20.14	118.21	34.52	118.21	202.29
377.30	271.61	277.78	377.22	105.08	41.91	140.69	107.25	47.87	126.54
660.07	110.95	277.78	167.65	144.43	50.13	280.54	59.58	200.21	185.22
309.95	362.02	13.56	258.47	157.82	85.47	519.88	283.53	273.47	54.94
772.04	257.64	533.78	189.84	281.96	150.81	84.91	41.09	163.58	40.79
610.98	326.68	908.94	165.60	307.92	31.23	34.13	91.63	217.27	237.67
574.06	233.40	46.84	41.50	97.37	18.90	67.43	83.42	106.56	96.15
667.37	146.29	146.29	48.08	150.92	129.44	213.94	118.34	171.07	57.44
452.35	220.66	451.59	412.15	131.85	127.38	373.78	75.61	238.50	152.76
536.74	139.71	399.41	129.85	103.45	25.89	177.73	29.18	229.76	341.73

518.48	87.53	419.95	342.29	213.80	154.50	114.46	119.58	131.95	270.55
562.70	347.63	182.86	313.53	199.20	113.00	180.23	96.15	161.50	117.79
1.62	64.92	200.53	224.36	178.51	169.30	151.09	121.63	93.65	82.41
270.60	110.13	184.50	248.60	209.34	204.22	86.16	68.62	140.69	39.96
398.39	242.44	218.61	136.42	231.25	41.09	151.93	131.49	146.93	96.57
253.56	110.95	148.34	147.11	162.68	106.43	75.75	122.45	63.68	111.13
218.26	63.21	16.44	225.18	193.92	18.08	68.26	19.72	275.13	137.36
718.89	140.53	338.59	51.78	344.84	160.26	106.97	86.70	73.26	129.03
169.58	129.44	307.78	19.72	119.28	147.11	96.57	57.12	133.61	46.62
293.72	254.77	428.58	70.68	197.17	291.75	93.65	52.60	53.28	141.10
131.04	297.50	96.57	126.15	101.83	408.45	93.24	102.73	14.57	113.63
465.74	393.66	663.22	205.87	112.78	405.57	131.53	69.03	48.70	80.33
165.12	229.29	239.56	65.75	223.94	156.56	100.31	146.70	51.61	72.43
355.80	67.39	516.52	99.44	171.20	31.23	213.53	36.16	80.75	79.08
1152.18	43.56	497.21	235.87	322.93	25.89	133.20	173.82	77.00	24.14
228.00	382.97	598.29	65.75	295.75	99.85	176.48	116.29	110.72	147.76
496.98	166.42	98.62	250.25	189.87	34.93	190.22	514.05	93.24	103.64
838.17	78.90	327.09	77.25	351.33	248.60	102.39	87.53	74.51	125.70
	234.63		62.46	241.80	70.68	135.69	103.96	122.37	164.41
	339.83		286.00	245.04	210.39	125.29	57.94	81.58	140.69
	216.14		72.32	109.94	321.34	159.83	237.10	57.02	39.13
	144.23		166.83	108.73	90.81	62.02	125.33	211.03	203.95
	96.98		91.22	121.30	294.63	221.02	383.38	40.38	167.33
	189.02		196.42	232.87	19.31	247.66	175.46	130.28	179.40
	145.05		449.54	185.40	165.19	80.75		238.50	40.79
	326.27		154.92	169.58	147.52	120.29		234.34	129.87
	117.11		53.01	154.98	68.21	227.26		155.26	100.73
	174.64		192.72		465.57	289.28		188.97	183.98
	341.47		127.79		14.79	262.23		136.94	134.86
	24.24		507.48		9.86	34.13		142.77	188.97
	38.63		140.94		44.38	171.49		294.69	105.72
	154.92		141.77		28.76	398.75		313.84	458.27
	183.68		110.54		12.33			127.78	73.67
	19.72		108.89		96.57			54.94	105.31
	158.20		61.64		119.58			183.98	89.07
	53.01		114.23		27.94				84.08
	83.01		184.91		38.63				89.91
	299.15		130.26		211.62				120.29
	138.07		224.36		168.06				104.06
	273.67		203.81		22.19				146.10
	86.70		299.15		55.47				142.35
	175.46		193.95		119.17				62.85
	181.21		119.17		84.65				34.96
	280.65		279.83		36.57				32.88
	115.88		197.65		41.50				44.54
	169.71		80.95		31.23				160.67

276.13	132.31	90.81
293.39	156.15	19.72
89.17	264.63	
128.21	149.98	
124.92	354.62	
96.15	229.29	
23.83	133.55	
56.71	124.10	
151.63	67.39	
119.99	154.92	
180.39	404.34	
80.13	442.97	
21.78	105.61	
306.13	228.88	
224.77	261.75	
98.21	119.58	
68.21		
399.82		
88.76		
94.92		

499.79	214.11	317.48	183.51	244.41	123.91	147.65	112.02	125.98	145.57
379.28	133.70	178.25	115.57	145.39	100.25	93.49	88.00	79.46	90.79

Group Mean	211.44
Group StDev	119.96

Females - Group 2 (3mg)

5-Day Old Rat Study

	68B	70B	71B	72B	73B	74B	338	342	344	350
168.06	354.62	101.50	198.44	452.83	189.43	129.87	147.76	69.10	41.62	
168.06	298.32	212.85	106.79	646.78	31.64	187.72	489.07	69.10	43.70	
113.00	727.73	188.61	120.29	748.27	100.26	281.79	346.72	235.59	72.84	
19.31	69.86	113.41	700.08	84.24	167.65	71.18	129.87	80.33	109.89	
235.45	152.04	95.74	762.27	124.92	119.17	314.67	255.98	62.44	139.44	
103.14	641.03	71.50	299.51	290.11	166.83	350.47	393.34	44.95	138.19	
235.45	543.23	354.21	71.19	259.70	172.58	488.66	296.36	103.23	134.44	
81.77	854.70	62.05	208.67	606.92	189.02	137.77	201.04	52.86	127.37	
89.58	357.08	107.25	410.39	407.22	106.84	178.15	239.33	57.44	79.92	
110.54	377.63	101.91	186.17	246.14	200.94	149.43	60.35	59.94	75.34	
183.27	570.76	32.05	55.65	295.86	207.51	70.76	158.17	64.93	191.47	
543.64	64.92	142.59	26.19	194.77	183.68	169.41	125.29	50.78	67.85	
166.83	195.60	73.14	268.41	363.66	283.94	350.05	139.44	50.36	90.32	
367.36	324.21	27.53	275.78	387.08	169.71	517.38	81.58	94.07	29.14	
170.94	155.33	122.45	109.25	206.28	146.70	122.37	118.21	71.59	64.52	
627.06	119.17	335.72	164.48	54.65	96.98	106.56	90.32	54.94	238.92	
216.96	87.53	140.94	83.47	230.93	87.94	84.50	208.53	54.53	99.90	
138.89	514.05	138.48	250.00	426.53	44.38	113.22	94.49	65.77	277.21	
187.79	279.42	274.08	208.67	207.92	64.92	226.85	135.28	55.36	126.12	
131.08	1177.68	85.88	274.96	407.22	174.64	154.84	161.92	56.61	289.28	
125.74	272.85	234.22	53.19	428.99	182.86	327.99	152.34	186.89	37.46	
52.19	320.92	61.23	372.34	958.25	249.84	79.08	352.97	180.65	123.21	
100.26	126.56	175.87	748.36	172.17	164.78	59.94	51.20	53.69	63.27	
116.29	361.19	91.22	217.27	637.74	47.26	177.32	158.17	199.38	140.69	
64.10	297.09	323.39	271.28	611.44	53.81	178.15	42.37	79.08	142.35	
129.85	187.38	26.71	169.39	5173.00	113.00	212.70	109.47	56.19	89.91	
82.59	117.11	294.21	422.67	216.96	140.12	62.44	141.10	61.60	83.66	
313.12	131.49	36.16	520.46	353.39	235.87	99.06	67.85	387.10	166.49	
344.76	212.85	89.58	155.89	542.00	226.00	201.87	76.59	95.32	43.70	
167.24	622.12	303.67	271.69	388.31	85.06	270.55	237.67	166.08	131.11	
145.05	461.46	20.55	416.53	258.47	209.16	80.33	425.81	122.37	163.58	
373.52	111.77	173.41	299.92	812.79	103.55	432.88	111.97	81.17	77.00	
314.76	231.76	114.23	57.69	400.23	228.47	141.94	54.94	209.78	108.22	
241.62	144.64	50.13	389.11	254.36	188.20	104.48	106.97	117.38	56.19	
241.21	227.24	193.54	269.64	254.36	123.27	378.77	295.53	126.54	132.78	
83.42	481.59	192.72	407.94	351.74	161.90	164.41	210.61	459.94	109.89	
135.60	143.41	127.38	305.65	546.52	229.70	449.12	108.22	81.58	231.01	
240.80	597.88	167.24	247.54	244.08	39.45	210.61	77.84	193.97	118.21	
322.98	402.70	60.40	336.74	246.14	244.91	271.38	107.80	64.93	77.84	
115.88	749.51	44.79	125.20	272.03	135.60	131.11	210.20	87.41	30.39	
223.54	758.96	220.25	262.68	184.91	157.38	122.79	120.29	262.64	114.88	
212.85	257.23	93.69	391.16	484.47	117.93	477.84	169.82	177.32	268.05	

235.87	592.13	60.82	277.00	342.29	442.14	178.15	191.05	39.96	146.10
32.46	227.24	231.76	60.97	226.00	61.23	318.00	315.51	131.11	65.35
220.66	40.68	636.10	149.75	1067.14	115.06	281.79	397.09	37.05	81.17
90.81	1005.92	166.42	249.59	3395.38	83.01	86.99	187.72	58.27	52.86
46.02	127.38	85.06	186.58	1728.30	219.43	512.80	165.25	108.64	93.65
242.03	149.16	60.82	282.32	45.61	47.26	131.53	197.29	120.71	39.54
60.40	433.10	72.73	197.63	110.13	232.58	26.64	262.64	97.82	131.95
153.27	271.61	257.64	247.54	320.92	96.98	153.17	301.77	31.22	78.67
110.13	401.46	382.56	207.86	663.63	135.60	116.96	479.08	79.50	67.43
129.03	157.79	88.76	143.62	486.93	128.21	145.27	330.07	28.30	25.81
410.91	369.41	229.70	71.19	181.62	135.60	136.94	288.03	102.39	111.13
80.95	264.22	306.54	545.82	375.58	144.23	286.37	172.74	88.24	86.58
238.33	688.69	425.30	91.24	179.16	193.95	276.80	686.79	53.28	248.91
106.84	128.21	323.39	189.44	354.21	113.41	203.12	107.39	88.24	85.74
112.59	224.36	337.36	487.31	176.28	212.85	249.32	181.89	25.39	97.40
130.67	39.86	158.20	273.73	459.81	23.01	129.45	298.44	62.02	119.88
265.04	241.21	149.98	277.82	110.13	263.40	344.23	14.57	50.36	245.99
47.26	60.40	135.60	261.46	747.45	48.49	110.72	230.59	33.72	147.76
474.61	581.44	270.79	387.89	251.07	200.12	65.35	360.87	129.45	57.02
63.69	1051.12	85.47	290.51	283.53	280.65	376.28	187.31	156.09	155.26
121.63	251.07	108.89	113.75	251.48	94.92	234.76	285.54	137.36	53.69
107.66	263.81	306.95	297.87	417.49	249.84	296.36	335.07	91.57	87.41
98.62	136.83	479.95	586.33	355.03	380.10	208.12	181.06	94.49	68.68
85.88	362.02	124.51	76.51	416.26	89.99	108.64	203.12	102.39	257.65
91.22	207.92	209.16	202.95	261.34	207.92	384.18	293.44	56.19	24.97
350.92	89.17	401.87	57.28	561.31	214.09	382.93	99.06	70.76	38.71
84.24	279.83	131.08	283.96	500.08	96.57	765.87	32.88	166.49	106.97
461.46	256.00	54.65	71.60	223.54	189.02	363.37	183.14	40.79	72.01
155.74	223.13	85.47	158.76	417.90	177.93	74.09	164.41	399.58	47.03
115.06	137.66	65.34	317.51	3873.69	99.44	230.59	265.97	156.92	174.40
333.66	91.63	118.75	425.94	1760.77	241.21	410.82	285.95	116.13	55.36
521.45	492.69	578.57	98.61		306.13	66.18	347.14	82.83	100.73
100.26	41.91	147.52	105.16		286.41	468.26	134.44	32.47	49.95
126.56	192.31	66.16	192.31		110.13	1178.77	135.69	114.46	34.13
194.36	629.11	146.29	128.48		99.85	359.21	516.55	105.31	126.95
316.82	142.18	164.37	219.72		115.88	353.38	330.07	187.72	231.43
154.09	263.40	407.22	119.48		285.59	59.52	65.35	117.79	135.28
122.04	229.70	743.34	140.75		74.79	725.08	156.50	49.12	190.22
300.79	263.40	57.94	128.89		62.46	188.14	102.81	172.32	33.72
454.47	249.84	113.82	97.79		101.09	62.85	263.48	154.01	48.70
308.19	207.51	143.41	207.04		161.49	81.17	136.94	64.10	32.47
139.71	548.98	185.73	205.81		199.29	223.93	27.06	371.70	99.90
74.79	837.44	165.60	32.73		613.91	189.80	313.84	211.86	26.64
208.33	604.04	148.75	83.47		135.60	288.87	24.14	292.20	46.62
267.09	560.49	41.50	110.07		138.48	161.50	144.85	243.50	46.62
99.44	535.42	28.35	113.75		125.74	110.72	395.42	186.89	176.07

110.54	881.82	435.98	140.75	76.43	150.68	201.04	185.22	159.00
211.21	97.39	147.93	137.07	182.86	209.78	129.03	250.16	67.01
151.22	249.43	267.92	88.38	142.59	240.17	46.20	31.22	38.29
130.26	136.01	156.97	184.94	189.43	212.28	139.44	270.55	335.48
175.05	140.94	221.89	259.82	66.57	67.43	51.61	104.06	121.12
99.85	183.27	485.70	119.89	124.10	117.38	355.05	33.72	98.23
293.80	262.57	129.03	101.47	229.70	176.90	282.62	114.05	71.18
256.82	225.18	356.26	358.02	221.89	529.87	19.98	134.44	46.62
100.26	790.60	51.78	121.11	233.40	413.74	94.90	54.11	166.91
138.89	639.79	535.42	188.22	169.71	313.84	97.40	32.47	17.90
285.17	109.30	39.04	150.98	159.44	373.78	221.02	34.96	96.57
392.83	86.70	93.28	203.76	103.14	319.67	114.05	91.16	62.85
45.61	163.54	113.41	300.33	227.24	170.66	45.37	120.71	82.41
173.41	444.20	139.30	134.21	55.06	164.00	47.87	141.52	262.23
219.02	152.45	235.45	273.73	336.13	120.29	41.21	71.18	230.18
72.32	1019.89	87.53	241.41	281.48	655.15	298.02	112.80	60.35
132.31	121.22	220.25	306.87	149.16	135.69	211.45	72.43	
21.78	645.14	350.51	37.64	215.32	172.32	165.66	43.29	
388.73	79.72	101.50	329.38	166.42	174.40	98.23	247.66	
315.58	446.25	175.46	162.03	198.88	174.40	116.96	219.36	
195.60	329.55	107.25	134.21	264.63	235.59	77.84	140.69	
119.99	63.28	359.96	232.41	145.87	92.40	390.84	84.91	
164.78	240.80	195.18	227.50	55.47	226.85	301.35	129.87	
302.43	529.67	391.19	155.89	82.18	140.27	105.72	59.11	
152.04	285.59	189.02	614.15	224.36	594.38	170.24	119.04	
192.72	175.05	363.66	96.56	57.12	200.62	101.15	100.73	
196.83	113.82	283.94	518.82	327.50	117.79	44.95	78.67	
93.69	508.71	139.71	194.76	284.76	470.34	66.60	86.99	
232.17	100.26	590.48	609.24	359.14	56.61	133.20	83.66	
288.05	192.72	55.06	131.34	117.11	310.09	230.59	119.04	
371.47	187.38	85.47	194.35	136.01	486.16	57.02	145.68	
389.14	413.79	677.19	172.26	45.61	561.08	193.97	58.27	
144.23	764.30	296.27	379.70	162.72	234.34	145.68	341.73	
96.15	75.20	302.43	108.43	269.56		171.90	124.04	
161.90	522.68	69.86	187.40	158.20		98.23	78.67	
191.90	380.51	166.42	166.94	99.85		253.49	143.18	
92.87	644.72	484.06	198.85	120.40		89.49	109.05	
210.39	352.15	126.97	64.65	107.66		82.41	68.26	
133.14		714.17	152.21	117.93		111.55	155.67	
294.21			174.71	621.71		98.65	47.87	
157.79				22.60		391.68	223.93	
79.72				253.12		45.37	216.03	
149.16				129.85		25.81	37.46	
131.08				376.81		149.01	290.53	
194.77				162.31		138.61	184.39	
136.01				173.41		101.98	57.86	

150.39		272.03	75.34
456.94		166.42	51.20
145.05		202.58	197.71
15.62		177.52	66.18
357.08		135.19	238.09
131.49		316.40	117.79
382.56		243.67	137.77
242.03			362.96
301.20			252.24
253.95			291.78
112.18			382.52
94.10			362.12
293.80			325.49
170.53			64.93
212.03			154.84
59.99			105.72
98.21			223.93
280.65			59.94
232.99			354.63
185.73			106.56
196.01			74.92
185.73			178.15
168.06			
252.30			

192.51	341.20	200.86	230.49	561.76	172.31	244.35	184.50	118.63	109.31
113.57	246.98	155.57	148.32	820.30	97.01	173.97	118.62	82.56	69.03

Group Mean	235.59
Group StDev	132.05

Females - Group 3 (1mg)

5-Day Old Rat Study

78B	79B	80B	81B	82B	83B	353	358	362	364
72.73	61.64	147.52	53.42	97.80	631.16	77.42	153.17	147.76	149.01
588.84	55.88	331.61	166.01	471.73	967.70	159.83	289.28	347.97	229.34
257.64	1133.30	205.87	261.75	277.78	78.07	214.78	391.68	146.93	301.77
141.35	187.38	157.79	115.47	206.69	294.63	755.88	113.63	202.71	269.30
88.76	49.31	145.87	130.26	378.45	749.10	240.58	159.42	236.00	587.31
661.98	243.26	229.29	580.62	165.19	1017.01	238.92	139.44	191.88	195.63
335.72	184.09	304.08	172.17	198.47	313.94	180.23	236.42	164.83	276.38
377.63	433.93	175.46	423.65	292.16	261.34	165.66	194.80	91.99	254.74
550.21	470.91	136.83	386.26	210.80	271.61	278.04	175.23	31.63	95.73
374.34	603.63	254.36	113.41	141.77	44.38	159.83	142.35	79.08	318.42
196.01	238.33	493.51	27.12	46.43	336.13	91.99	131.11	104.89	216.03
259.70	158.61	72.32	54.65	337.77	703.07	79.08	171.90	37.05	380.44
245.32	200.53	108.07	147.93	172.17	326.68	119.46	150.26	230.59	290.53
66.57	258.05	60.40	145.87	66.98	163.54	272.63	87.41	107.80	346.72
363.25	120.40	376.81	106.43	120.81	315.99	269.72	96.57	351.72	519.46
198.06	263.81	172.17	239.15	206.69	142.18	883.25	149.01	362.12	81.58
320.10	463.10	22.60	48.49	62.05	165.60	371.70	189.80	362.12	42.46
214.50	309.01	258.88	309.83	333.66	394.48	208.53	234.76	124.45	188.97
179.16	177.10	322.98	23.42	371.06	75.20	298.86	58.27	155.26	348.39
272.03	261.34	797.17	66.98	226.82	131.90	174.82	400.83	62.85	228.93
123.69	77.66	286.00	362.84	274.08	139.71	379.19	335.48	103.64	54.11
191.08	369.00	216.96	47.67	156.56	196.01	155.26	248.91	317.59	196.05
112.18	332.84	344.76	17.67	225.59	210.80	377.94	201.04	129.45	110.72
164.78	341.88	241.21	122.86	51.36	262.57	389.18	392.92	250.99	49.53
69.44	350.51	1099.20	415.02	64.10	252.71	141.52	428.30	120.71	149.01
359.14	171.76	249.01	273.26	119.99	735.95	178.56	211.45	177.73	259.31
928.25	121.22	457.76	212.85	256.82	313.94	315.92	116.55	155.67	103.64
258.88	94.51	83.01	608.97	26.30	186.14	134.03	141.10	156.09	567.33
325.03	321.75	187.38	438.86	93.28	47.67	85.74	144.85	115.30	50.36
334.07	171.35	740.47	130.26	13.15	307.78	426.22	283.87	219.36	90.74
171.35	186.14	717.46	249.84	277.78	241.21	116.96	236.42	162.33	54.94
906.48	504.60	432.69	134.78	163.13	262.16	383.77	269.72	154.42	136.94
209.16	84.65	1194.12	148.34	277.78	416.67	154.01	247.66	263.48	229.34
147.52	126.97	777.45	114.23	569.12	170.53	771.70	184.81	170.24	383.35
95.33	520.63	276.55	410.09	150.39	264.22	561.08	256.40	231.84	91.57
80.54	636.51	104.78	146.70	279.01	592.13	347.97	257.65	47.87	292.61
163.13	95.74	177.93	133.14	588.84	418.31	650.99	128.62	144.85	34.13
93.28	960.72	310.65	230.11	140.53	203.81	367.53	542.35	372.53	191.05
101.50	169.71	664.45	329.14	215.73	341.06	142.35	134.44	221.44	42.87
63.69	117.11	907.30	200.53	308.60	232.17	203.95	167.33	22.89	213.94
262.99	191.49	243.67	258.88	304.90	273.26	447.45	115.71	41.21	172.74

145.87	76.84	328.32	242.85	86.29	211.21	117.38	268.05	171.90	146.10
175.87	80.95	226.00	46.84	197.65	201.76	127.37	409.99	159.83	71.59
150.39	161.08	389.14	314.76	184.09	219.43	163.58	85.74	183.14	61.19
130.67	204.64	486.93	64.10	115.88	516.11	146.51	178.56	67.43	367.95
246.96	71.50	190.25	182.04	120.40	422.01	670.97	290.95	347.97	898.65
62.46	138.89	1.64	33.28	101.09	321.75	229.34	290.53	22.06	146.10
202.99	126.97	406.39	145.87	237.92	789.37	119.88	221.44	262.23	27.06
205.05	376.40	391.19	405.98	78.90	858.40	126.12	220.19	32.88	240.17
205.05	161.90	353.39	122.04	202.17	190.66	138.61	308.85	203.54	116.55
82.18	366.12	268.33	140.94	60.40	248.19	232.26	458.69	326.33	54.94
504.19	191.90	518.57	87.53	436.80	775.39	872.84	207.28	209.37	246.83
1049.89	280.65	318.05	282.71	78.49	192.72	172.74	367.12	218.52	62.85
171.76	302.84	171.35	36.16	46.43	202.17	118.63	102.81	93.24	45.37
298.32	226.82	1163.30	179.16	495.56	189.02	201.87	183.56	181.89	353.38
221.48	186.14	324.21	31.23	211.21	457.76	56.19	547.35	163.16	91.16
112.18	245.73	448.72	84.65	81.77	1037.97	335.90	119.46	183.98	57.02
202.17	416.67	238.33	399.41	73.97	192.72	707.60	402.08	188.97	58.27
236.28	175.05	131.49	149.16	127.79	1000.16	238.50	228.10	407.91	277.21
150.39	462.28	1102.48	261.34	246.96	387.49	112.80	266.39	214.36	64.52
101.91	150.81	119.17	378.45	283.12	1063.03	156.50	238.50	217.69	85.33
297.09	193.13	365.71	198.88	228.88	99.85	125.29	143.18	251.82	104.89
232.99	127.79	50.54	159.85	89.99	423.65	328.82	366.70	187.72	74.92
122.86	305.31	150.81	221.07	96.15	324.21	218.52	72.43	137.77	72.01
50.95	268.74	339.83	188.20	139.71	93.28	1262.02	142.35	98.65	144.85
263.81	345.99	139.30	59.99	132.73	431.46	104.06	208.12	107.39	69.10
164.78	454.47	475.02	303.67	33.28	252.71	87.41	232.67	103.64	155.26
172.58	179.98	518.98	149.16	60.82	249.43	149.01	105.31	121.12	113.63
242.85	179.16	841.55	186.56	168.48	446.25	305.10	75.34	131.95	259.31
482.00	189.43	1169.87	440.50	225.59	73.97	248.49	538.61	30.39	41.62
154.09	232.58	259.70	81.36	283.12	381.74	341.73	131.11	196.88	101.15
422.01	305.31	687.05	53.42	704.72	614.73	273.05	108.22	199.79	65.77
135.19	229.70	752.79	186.56	200.53	51.78	373.36	277.63	212.28	25.39
283.12	128.21	767.18	48.08	412.97	399.82	355.88	79.50	71.18	156.92
161.49	273.26	875.66	213.26	258.47	163.13	264.31	402.50	275.96	87.83
142.18	113.82	372.29	370.64	222.30	91.22	93.65	175.23	241.42	178.98
278.60	364.48	745.40	395.71	382.15	94.51	185.22	286.37	313.84	45.37
142.18	124.51	270.38	602.81	347.63	211.62	786.26	291.36	57.44	74.51
148.75	188.61	265.86	321.34	232.58	112.59	239.75	214.36	147.35	108.64
724.44	203.40	510.36	200.12	353.80	176.69	720.92	215.61	191.05	113.22
379.68	140.53	309.01	761.83	218.20	226.00	403.75	302.60	44.54	202.71
592.95	98.62	154.92	57.12	242.03	415.02	474.51	447.87	34.13	206.04
239.15	225.59	449.13	167.24	64.92	159.85	62.44	208.53	48.70	71.18
138.89	200.12	325.86	377.22	116.29	136.83	146.93	361.71	189.39	197.29
78.07	500.08	119.17	64.51	96.15	502.55	52.86	126.54	367.53	430.80
320.10	267.09	376.81	71.09	287.64	242.44	74.92	179.81	192.72	66.18
408.86	73.14	307.36	55.06	50.13	158.20	267.22	492.82	79.50	132.78

107.25	262.99	987.02	34.11	394.89	381.33	208.12	113.22	247.66	41.21
103.14	755.67	149.16	212.44	192.72	202.17	94.07	16.23	137.36	93.65
108.07	73.97	388.31	260.11	1090.98	369.82	579.81	382.52	188.14	217.69
88.76	498.85	517.34	170.53	254.77	547.75	504.48	218.11	205.62	218.11
240.39	449.13	106.84	85.88	230.93	244.08	1488.03	261.39	77.00	357.96
201.76	112.59	152.04	295.45	440.50	756.49	135.28	231.43	186.89	243.08
110.13	170.12	969.35	228.88	407.22	577.33	175.65	96.98	325.49	136.11
124.51	75.61	142.18	75.61	78.07	1010.03	111.97	347.97	187.72	108.22
205.87	175.05	695.68	312.71	558.43	211.21	1225.81	66.60	79.50	255.57
172.58	191.49	240.80	76.02	133.96	674.72	413.32	138.19	285.95	80.75
244.49	303.25	150.39	50.95	212.03	470.09	290.53		156.09	75.34
141.35	499.67	493.51	102.32	164.78	242.03	388.35		242.25	83.66
117.11	289.28	518.16	16.44	257.64	1034.27	188.97		402.50	157.75
133.55	544.87	754.85	197.65	336.54	242.03	166.08		140.27	180.65
333.66	89.99	606.92	315.99	209.98	336.13	878.67		91.57	72.43
215.73	491.04	297.91	230.52	279.01	356.26	212.28		29.97	237.25
868.67	159.44	403.93	212.44	209.98	34.52	139.85		82.00	12.07
267.09	142.18	597.88	196.42	244.08	752.79	146.51		261.39	39.13
296.27	266.68	549.80	44.38	60.82	176.28	323.00		155.26	93.24
286.41	144.23	633.22	438.03	343.11	256.00	207.70		72.01	37.88
238.33	102.32	460.63	249.01	153.68	262.57	148.60		252.24	94.07
113.82	120.81	764.71	170.53	77.66	1168.23	314.67		95.73	98.23
241.62	119.58		364.48	421.19	96.15	356.30		153.59	241.42
99.85	396.12		468.03	785.67	193.54	217.27		98.23	199.38
289.28	80.54		328.73	191.49	504.60	207.70		254.74	154.01
155.74	276.13		314.35	685.40	92.87	134.44		282.21	53.28
161.49	408.86		101.09	426.53	131.49	97.82		201.04	237.25
270.79	86.70		131.90	272.44	349.69	352.13		114.46	45.79
502.14	239.15		392.01	156.56	37.39	203.54		183.56	51.20
700.61	321.75		443.79	510.77	280.24	203.95		325.49	54.11
132.73	206.69		524.33	155.33	853.88	116.55		168.57	57.02
122.04	419.13		92.46	143.82	182.04	270.14		253.90	103.64
113.00	209.16		233.40	279.01	28.76	180.23		162.33	94.49
173.41	38.63			94.92	267.51	96.98		74.09	38.71
113.41	265.86			203.40	348.04	445.37		152.34	95.73
378.45	179.16			268.33	372.70	104.06		486.58	102.39
562.13	104.78			8.22	210.80	50.78		213.94	222.27
190.66	77.66			283.53	384.20	203.54		135.69	34.13
160.26	366.95			207.10	139.71	167.74		134.03	149.01
192.31	232.99			307.78	155.33	365.87		113.63	76.59
86.29	67.80			189.43	363.66	231.43		162.33	134.03
309.83	92.46			224.77	520.22	255.98		269.72	304.27
	183.68			290.93	248.60	99.90		144.85	75.75
	206.28			81.36	43.15	174.40		303.43	144.02
	108.07			95.74	175.87	224.35		184.39	44.54
	815.66			140.94	671.02	479.92		124.45	96.98

502.14	38.22	11.51	369.62	119.88	220.19
	193.13	298.73	299.69	375.86	122.79
	127.79	169.30		263.48	156.09
	135.60			146.93	236.84
	247.37			146.10	143.60
	101.91			159.42	66.60
	137.66			195.63	110.72
	481.59			144.02	218.94
	136.42			145.68	294.28
	396.94			104.48	119.88
	147.11			67.85	41.21
				99.48	230.59
				235.17	203.54
				131.11	233.09
				130.70	71.18
				143.18	146.93
				104.06	
				162.75	
				260.98	
				146.93	
				64.52	
				120.71	
				140.27	
				235.59	
				216.86	
				229.76	
				399.17	
				302.19	
				295.53	
				183.56	
				187.31	
				150.26	
				146.93	

248.34	254.20	405.92	212.11	228.88	344.86	290.48	228.51	178.11	160.59
184.58	179.04	280.70	148.27	161.07	256.16	241.13	118.11	90.94	125.28

Group Mean	255.20
Group StDev	74.69

Females - Group 4 (0.1mg)

5-Day Old Rat Study

85B	87B	88B	89B	93B	94B	365	369	371	374
111.36	37.80	202.54	381.33	142.18	108.48	126.54	186.06	283.94	360.37
108.48	10.27	418.17	322.98	246.96	382.56	121.54	314.26	622.95	239.56
573.23	177.10	156.30	442.14	425.71	318.05	337.57	79.92	164.37	185.73
802.10	163.96	346.15	376.40	204.64	113.41	57.02	89.07	527.61	182.45
174.64	214.91	778.23	395.30	89.99	229.70	452.45	95.73	267.09	581.85
397.35	608.56	164.89	164.78	317.64	120.40	82.83	242.25	686.23	188.20
377.22	369.41	339.61	243.26	373.11	102.73	156.09	493.65	276.55	285.59
160.26	256.41	72.42	401.87	199.70	413.38	179.40	370.45	223.54	67.80
111.36	377.22	241.41	114.23	150.81	122.04	190.22	247.66	367.77	36.16
227.65	152.04	501.23	147.11	83.42	172.17	146.93	191.05	228.06	183.27
200.53	626.23	112.11	354.21	383.79	374.34	95.32	293.03	251.07	396.53
424.06	295.04	326.92	625.41	310.65	284.35	155.67	194.38	327.50	406.39
323.39	306.13	209.08	470.91	295.04	269.97	57.02	169.82	249.43	450.36
39.86	1301.78	308.51	697.73	225.59	123.69	256.82	314.67	746.22	81.36
49.72	310.65	206.63	175.46	196.83	156.56	210.61	222.27	319.28	248.60
308.60	167.65	172.26	373.52	241.21	158.20	67.43	131.53	177.52	840.73
188.61	365.30	29.87	288.05	651.30	492.28	70.34	246.83	448.72	132.31
53.42	409.68	196.81	41.91	513.64	352.98	135.28	419.98	331.61	95.33
41.91	260.93	165.30	117.11	417.49	270.38	94.90	26.22	425.30	176.28
30.41	144.23	38.05	324.21	218.20	114.65	222.69	55.36	204.22	130.67
458.58	72.73	323.24	55.47	210.80	191.08	144.85	213.53	321.34	177.10
101.50	305.72	144.03	424.47	450.77	272.44	177.73	27.47	158.61	276.96
349.28	237.10	220.13	308.60	456.94	312.71	240.17	145.27	229.29	119.58
92.05	81.36	259.00	820.60	433.51	110.13	172.32	70.76	269.97	156.15
101.91	605.69	38.05	296.27	187.79	242.44	68.26	180.23	262.57	75.61
128.21	181.62	321.60	457.35	82.59	369.82	126.95	146.51	455.70	309.01
110.54	146.70	282.32	781.15	236.69	90.81	442.04	64.52	129.03	109.71
692.39	233.81	236.09	301.20	282.30	177.93	347.14	185.64	164.37	164.78
280.24	176.69	306.05	831.28	271.61	51.36	107.39	290.95	134.78	205.46
457.76	297.91	262.68	568.29	168.48	165.60	442.04	106.14	124.92	49.72
62.46	155.33	333.47	47.26	114.23	154.92	169.41	109.47	233.81	55.88
309.83	420.37	270.87	205.87	598.70	655.00	200.21	268.47	612.67	91.63
128.21	210.80	117.43	405.98	128.21	131.08	48.70	235.59	48.08	89.17
57.12	121.63	238.95	143.00	112.59	271.20	216.44	381.27	242.44	60.82
48.90	357.50	410.39	603.63	284.35	291.75	85.33	238.92	227.24	210.80
199.29	504.19	502.45	191.49	271.61	243.67	122.37	302.60	134.78	143.41
447.49	228.47	130.93	345.17	179.16	100.67	147.35	436.63	168.48	147.11
260.52	390.37	235.27	915.93	191.08	281.07	130.28	113.22	512.82	208.33
220.25	265.04	178.80	338.18	272.03	115.88	237.67	215.61	207.92	82.18
243.67	323.80	200.49	150.39	177.52	106.02	75.75	105.72	114.65	80.54

193.54	248.60	213.17	418.72	185.73	145.05	219.36	43.70	219.43	108.89
599.52	272.03	325.29	255.18	702.25	876.89	94.49	350.47	164.37	121.22
472.96	204.22	212.77	290.11	316.82	75.20	45.79	159.42	191.49	274.90
183.68	229.70	479.95	280.24	207.92	174.64	177.32	180.23	115.88	186.97
152.45	154.50	205.40	430.23	283.12	623.77	104.89	291.78	213.26	117.11
434.34	202.17	198.44	424.06	176.28	742.52	146.51	186.47	83.42	124.92
119.99	175.05	469.72	373.93	127.79	146.29	313.01	168.57	30.82	130.67
586.79	649.24	421.85	185.32	200.12	386.26	165.66	202.29	147.11	356.26
459.81	186.56	238.13	285.17	154.09	208.33	718.84	148.18	42.74	123.69
458.58	185.32	174.30	27.53	184.09	251.89	283.04	323.00	226.82	33.28
134.37	525.15	340.83	55.88	234.63	138.89	218.94	84.50	323.39	260.11
36.57	312.71	465.22	308.60	128.21	602.81	564.83	240.17	60.82	110.54
136.83	241.21	135.02	435.16	399.82	347.22	527.37	51.20	161.49	126.97
514.05	340.24	79.79	883.88	135.60	298.73	285.95	275.13	207.92	452.42
381.74	193.13	214.40	1024.00	179.98	235.87	471.59	297.19	310.65	197.65
335.72	306.54	178.80	186.56	462.28	351.33	139.02	164.83	160.26	110.13
20.14	34.93	657.94	313.94	168.06	412.97	114.88	157.34	491.86	86.29
227.65	289.28	266.37	269.56	158.20	201.76	213.94	255.15	188.20	326.68
487.76	155.33	465.22	486.52	256.82	166.42	512.80	237.25	73.97	258.47
106.84	348.87	306.87	459.40	339.42	125.74	347.14	511.55	271.61	276.96
36.16	309.01	460.31	104.78	153.27	95.33	172.74	226.43	486.93	156.56
118.75	259.29	365.38	1141.52	159.44	309.83	64.93	231.01	417.90	142.59
246.14	213.26	157.12	736.77	238.33	379.68	121.12	471.18	99.03	179.57
240.80	459.81	403.03	950.44	32.46	281.48	176.48	294.69	269.15	189.43
440.91	115.88	446.81	936.06	109.71	261.75	150.26	92.40	115.47	170.53
281.48	212.03	406.30	443.38	380.10	95.33	107.39	121.54	47.67	282.71
105.61	250.66	384.20	1365.88	159.85	93.28	195.21	72.43	131.49	170.53
315.58	467.62	201.72	511.59	207.51	167.65	196.46	199.79	251.48	282.30
440.50	163.3	325.29	141.35	298.32	294.63	135.69	82.83	422.42	155.33
24.66	623.77	344.52	578.16	326.27	146.29	36.63	44.54	234.63	70.68
91.22	943.87	162.44	191.08	99.44	116.29	180.65	295.94	100.67	147.93
129.85	408.04	304.83	1123.03	415.43	242.85	216.86	320.50	168.06	361.19
113.82	322.57	432.08	349.28	334.07	231.76	178.56	54.94	37.39	329.14
38.22	127.38	155.48	191.08	196.01	80.13	142.77	207.28	157.38	546.93
622.95	2.88	482.40	357.91	319.28	386.26	126.95	117.79	609.39	222.72
156.56	613.91	586.74	366.95	207.92	430.64	76.17	696.36	32.05	157.79
349.28	228.88	248.77	137.66	755.26	218.61	174.40	241.00	195.18	266.68
36.57	152.45	865.79	290.93	147.52	145.05	164.00	511.13	233.81	106.43
81.36	412.56	406.30	37.39	393.66	989.48	216.86	411.66	161.90	233.81
249.84	392.83	96.97	284.76	151.22	147.93	163.58	113.63	213.68	221.89
120.40	183.68	372.34	517.34	273.67	513.64	129.87	470.34	166.42	98.62
231.76	541.58	270.05	237.92	228.06	111.36	273.47	216.44	226.41	97.39
340.65	285.59	353.11	239.56	101.50	233.40	160.67	266.81	71.91	558.02
109.30	398.59	1083.47	319.28	91.22	193.54	320.50	231.84	57.94	253.53
733.89	224.36	739.36	168.48	82.59	108.48	450.78	208.12	82.18	139.71
436.80	340.65	183.71	203.81	126.56	101.50	147.76	232.26	50.95	111.77

161.49	221.89	535.19	246.14	117.11	245.32	355.46	356.71	53.01	119.99
247.78	313.53	504.09	568.71	245.73	115.06	248.49	141.94	283.12	246.96
177.10	262.16	121.93	645.14	347.63	861.28	104.89	157.75	313.12	254.36
754.85	435.57	169.39	785.26	163.13	131.49	100.31	79.50	108.48	668.15
445.84	278.19	90.02	635.27	438.45	902.78	134.03	388.35	239.97	689.92
73.97	584.73	236.50	464.33	275.72	87.11	357.13	178.56	174.64	55.06
299.56	274.90	154.26	259.29	237.92	172.17	69.93	265.97	167.65	112.18
309.42	252.30	360.88	687.46	167.24	689.92	48.70	165.66	145.87	329.14
85.06	89.99	99.84	43.56	89.99	39.45	259.73	225.60	111.36	316.40
279.42	528.02	602.70	18.90	204.22	474.61	71.18	182.31	343.94	139.71
358.73	183.68	690.26	479.13	157.38	266.27	55.78	535.28	168.89	132.31
372.70	260.11	559.74	523.92	721.57	235.45	130.28	223.10	186.56	457.76
111.36	124.92	124.80	827.58	222.72	91.63	80.75	357.96	131.90	344.35
142.18	217.37	124.39	286.41	209.98	176.28	181.06	81.17	288.05	113.00
173.41	270.79	478.31	651.30	293.80	207.10	198.13	102.39	237.51	229.70
43.97	352.98	301.55	156.15	283.53	144.64	363.79	327.99	176.28	162.31
271.20	93.69	233.22	921.27	345.99	714.58	230.59	153.59	150.81	118.34
499.26	397.77	146.07	597.88	176.69	246.96	223.93	288.03	92.87	87.94
418.72	302.84	257.36	601.58	57.94	215.32	263.48	223.52	115.47	122.86
328.73	301.20	193.94	258.47	71.09	299.15	126.95	138.19	76.84	175.05
278.19	122.45	187.40	271.61	245.32	279.83	175.65	270.55	437.62	428.58
209.16	527.20	154.66	1221.65	83.01	339.83	264.31	18.73	283.94	160.67
149.57	355.85	372.75	528.44	250.66	177.10	305.10	286.79	136.01	251.89
409.27	309.42	189.03	169.71	119.99	38.22	186.89	106.56	73.55	87.94
20.55	418.72	137.89	137.25	311.06	69.03	276.80	220.60	352.56	219.43
246.96	237.51	38.87	621.71	302.84	246.96	224.35	73.26	213.68	177.10
20.55	414.61	423.48	751.15	47.26	81.77	290.53	385.02	181.62	52.60
25.89	197.24	211.95	470.09	56.30	251.89	168.99	349.64	111.77	175.87
287.23	232.99	327.74		232.99	118.34	544.85	323.41	388.31	64.92
186.56	292.57	138.30		166.42	65.75	79.92	421.64	88.76	671.02
508.71	576.92	316.28		237.10	311.88	89.07	303.85	73.97	176.69
170.94	1011.67	238.95		235.87	102.32	103.64	385.85	300.38	97.80
694.86	531.31	131.75		228.06	307.36	358.38		321.75	239.97
205.05	61.23	146.07		230.52	49.72	125.29		152.86	486.93
177.93	319.28	199.26		191.49	56.30	162.75		93.28	113.41
78.49	420.78	387.89		47.26	227.24	176.07		191.49	214.91
413.79	383.79	210.31		490.63	170.12	199.79		148.75	98.62
273.67	235.45	337.56		193.13	237.10	239.33		242.03	224.36
13.15	161.49	165.30		242.03	240.39	43.29		104.37	339.83
285.59	73.55	180.03		24.66	232.17	77.84		246.55	86.29
194.36	663.22	285.60		1140.29	221.89	202.71		342.70	248.19
502.96	150.39	22.50		584.73	36.98	231.84		29.18	202.17
257.64	333.66	293.37		201.35	491.04	178.56		147.11	115.88
17.26	194.36	139.12		201.35	141.35	328.41		115.06	112.18
409.27	495.56	116.20		137.25	189.43	54.94		95.33	36.98
311.47	264.63	181.26		149.98	234.22	551.93			203.40

130.67	249.43	159.98	623.36	1141.93	192.72	192.72
251.48	189.43	178.40	343.52	575.28	156.92	194.36
261.34	51.36	442.31	140.53	171.35	304.68	164.78
73.55	203.81	180.44	92.05	205.87	166.08	68.21
380.92	239.97		174.23	135.60	176.48	250.25
40.27	674.72		214.09	625.00	173.99	119.58
274.49	765.53		942.64	343.94		308.60
264.63	459.40		233.81	134.37		332.84
435.57	82.18		323.80	94.51		261.34
624.18	388.73			174.64		109.71
98.21	263.81			214.91		166.01
458.99	276.55			947.16		123.27
257.23	253.53			234.63		216.14
270.38	369.00			317.64		309.01
687.87	240.39			111.36		68.62
161.49	126.56			309.42		238.74
279.01	161.49					258.05
205.05	440.91					242.85
249.84	233.81					384.20
145.87	143.41					103.14
400.23	174.64					325.86
72.73	64.51					134.78
	393.66					215.73
	509.53					139.71
	356.26					592.95
	279.83					38.22
	345.99					128.62
	183.27					193.54
	359.96					250.66
	493.10					480.77
	261.34					370.23
	365.71					664.04
	144.23					187.38
	313.53					336.13
	235.45					238.74
	445.43					223.54
	229.70					302.43
	26.71					319.28
	563.36					207.51
	189.43					230.52
	431.46					101.91
	173.82					321.34
						104.37

256.61	303.84	285.04	419.29	255.72	262.68	199.14	226.30	221.74	216.60
178.50	182.78	172.09	279.68	169.89	203.12	123.61	126.50	141.68	141.91

Group Mean	264.70
Group StDev	63.18

Females - Group 5 (0mg)

5-Day Old Rat Study

96B	97B	98B	99B	101B	102B	382	385	388	390
65.34	217.27	83.01	234.63	288.05	184.09	717.87	297.91	494.74	355.44
188.61	218.49	110.13	265.86	156.97	386.67	162.72	85.06	740.88	295.45
583.09	205.81	203.40	308.00	355.44	306.13	149.51	395.59	411.33	181.21
88.76	55.65	560.08	319.28	618.43	225.59	449.13	93.69	459.40	443.79
608.97	156.30	590.89	1548.32	389.96	516.93	483.65	253.53	435.16	485.29
94.10	575.28	141.35	577.33	399.00	354.21	222.30	242.44	225.59	456.53
163.54	111.29	386.67	464.33	396.12	549.39	200.12	154.50	529.67	314.76
302.84	392.80	321.34	239.97	227.24	882.64	256.00	370.64	196.42	469.68
104.78	113.34	630.34	81.77	361.19	233.81	591.31	87.94	490.63	156.15
347.22	72.83	283.53	1013.31	768.82	416.67	202.17	205.46	532.54	221.48
251.07	298.28	170.53	539.94	377.22	392.42	261.34	57.94	703.90	385.44
284.76	610.88	709.65	480.77	130.26	218.20	993.18	183.68	383.38	542.82
116.70	90.02	463.10	1069.61	53.83	465.98	164.78	138.07	122.45	310.24
92.05	1011.04	859.22	81.77	352.56	189.84	362.43	125.74	369.41	235.45
79.31	293.37	757.73	272.44	166.83	528.02	170.94	473.37	119.17	106.02
108.89	120.70	94.10	747.45	190.25	169.30	276.13	235.04	503.78	203.81
293.80	199.67	449.13	479.13	242.44	291.34	53.42	385.03	651.30	234.63
204.22	408.35	266.27	232.58	417.90	391.60	287.23	297.09	597.88	539.53
248.19	120.29	290.52	261.34	270.38	81.36	564.19	251.48	431.46	229.70
195.18	417.35	1299.72	258.47	209.57	155.33	110.54	409.68	1440.25	243.26
291.75	322.01	436.39	187.79	162.72	922.50	447.07	377.63	255.18	406.39
186.56	63.01	455.29	266.68	317.23	201.76	166.83	99.85	175.87	172.58
196.42	394.84	114.65	201.76	98.62	191.90	243.67	173.00	283.94	244.08
363.25	144.03	356.67	269.15	328.32	482.00	76.43	189.43	264.63	122.45
150.39	87.97	332.84	196.83	380.51	482.41	228.88	339.83	491.86	185.32
562.13	129.71	628.29	690.75	382.56	335.72	80.54	168.06	449.95	264.63
287.23	123.98	277.78	138.89	207.10	372.70	655.82	199.70	588.43	176.28
229.29	121.11	695.27	409.68	235.04	92.05	740.47	510.77	375.99	241.21
267.51	96.15	202.58	433.10	141.77	118.34	200.53	392.83	440.91	177.10
100.67	98.20	444.61	574.46	1507.64	380.10	291.75	237.51	201.35	269.15
348.87	308.51	203.40	98.21	406.81	144.64	274.08	285.59	641.03	308.60
428.17	272.91	625.82	46.84	304.49	436.80	326.68	556.79	394.07	336.54
95.74	85.11	776.22	717.87	219.02	3155.00	180.39	251.48	271.61	236.69
312.71	274.14	415.43	246.55	295.45	198.47	177.52	232.99	620.48	96.57
298.32	65.47	178.34	580.21	157.79	180.80	242.44	168.06	176.69	80.54
181.21	113.34	339.83	237.92	179.98	205.87	386.26	630.75	368.59	219.84
99.85	127.66	483.65	505.01	719.51	662.80	299.97	491.45	185.73	174.23
161.90	69.15	563.36	165.19	276.13	671.02	328.73	345.17	295.45	251.07
262.57	215.63	463.92	71.09	321.34	570.35	291.75	253.95	239.97	221.48
166.42	54.01	366.95	654.59	241.21	621.71	227.24	117.52	353.80	253.53
228.88	296.64	699.38	130.67	565.01	1190.83	50.54	208.74	678.01	275.31

182.45	99.02	297.09	44.38	248.19	920.86	78.90	616.37	458.99	383.38
129.85	179.21	612.67	115.06	133.14	210.80	210.39	166.42	494.74	146.70
407.22	159.57	294.21	45.61	349.69	412.15	547.75	311.06	309.01	154.92
327.09	109.66	619.25	325.03	1502.71	280.65	354.62	301.61	469.26	410.09
152.04	105.16	1065.09	120.81	313.53	417.90	309.83	276.96	239.56	94.10
138.89	189.85	1073.72	153.68	191.08	313.12	376.40	556.38	99.03	153.27
130.26	492.63	304.08	935.24	347.22	365.30	1047.83	427.76	204.22	235.45
493.10	256.55	205.87	166.01	274.08	233.40	675.13	399.41	211.21	121.22
143.82	410.80	388.73	240.39	207.10	224.36	395.30	802.10	238.33	132.31
169.71	631.34	943.05	256.41	259.29	880.18	73.55	167.24	693.21	474.20
118.75	221.77	334.48	590.89	110.95	270.38	92.87	314.35	347.22	96.57
271.61	68.74	293.80	204.22	101.91	319.69	76.84	461.87	165.19	107.66
379.27	570.37	322.16	156.97	287.64	392.42	436.39	53.01	88.76	243.26
78.07	233.63	556.79	238.33	209.98	90.81	25.89	87.11	254.77	206.69
274.49	277.00	394.89	235.87	227.65	164.37	88.35	135.60	371.06	229.70
452.83	46.24	223.13	110.95	223.54	342.29	284.35	50.13	431.05	258.05
486.11	177.99	635.27	316.82	330.38	418.31	79.72	249.84	380.92	193.95
129.03	277.00	110.54	585.14	178.34	92.87	79.72	144.64	220.25	249.84
211.21	186.58	431.87	495.15	380.92	139.30	157.79	115.88	269.56	322.57
272.85	124.80	302.84	109.30	776.63	433.10	38.22	418.31	229.29	183.27
885.93	27.82	168.89	340.24	170.94	159.44	391.19	124.51	252.71	67.39
293.39	148.94	507.07	364.89	266.27	140.94	276.96	213.68	1317.80	145.05
149.57	223.81	321.34	250.25	366.95	345.99	79.31	108.48	373.11	135.60
108.48	310.96	395.71	236.28	503.37	1155.49	224.77	62.87	872.37	192.72
135.60	199.67	754.85	595.83	1201.51	336.95	92.05	98.21	410.09	278.60
106.84	52.37	299.56	177.52	226.41	142.18	483.24	133.96	165.19	250.66
172.58	226.68	295.45	326.68	294.63	106.02	147.11	124.10	258.88	253.95
104.37	204.99	551.86	369.00	170.94	370.23	330.38	226.82	483.24	107.66
154.50	135.84	381.33	87.11	223.95	236.69	274.49	194.77	1206.85	105.19
129.44	209.90	400.23	146.70	144.64	382.97	412.15	159.02	548.57	236.28
200.12	92.47	125.74	901.55	183.27	490.63	330.79	285.17	238.74	271.61
211.21	49.10	357.50	362.43	382.15	430.23	303.25	214.09	591.31	207.92
309.42	74.06	926.61	141.77	915.52	169.30	291.34	129.44	351.74	326.27
281.89	53.60	955.79	355.03	743.75	166.83	385.85	111.36	279.01	177.52
173.00	63.01	366.54	535.42	250.25	151.22	106.84	231.35	519.81	214.09
143.82	84.29	250.25	154.92	256.82	575.69	105.61	103.55	299.15	359.96
129.03	113.34	1024.41	168.06	505.42	3171.43	598.70	141.77	723.62	110.54
266.27	140.34	35.75	274.90	212.85	72.32	509.12	303.25	253.12	206.69
141.35	110.07	420.78	173.41	815.25	354.21	352.15	228.47	26.30	289.28
435.57	176.76	311.47	235.87	692.80	904.83	349.69	139.71	385.03	514.88
68.62	78.97	597.06	357.91	373.11	355.03	332.43	257.23	737.18	142.59
50.54	42.55	470.91	852.24	581.85	537.06	302.02	174.23	422.01	505.01
193.54	38.46	340.65	323.39	149.16	987.84	338.18	238.33	522.68	469.68
242.44	70.38	338.18	420.37	196.42	772.52	684.17	221.48	333.66	596.65
69.44	28.23	785.26	299.56	69.03	117.93	392.42	331.61	350.10	240.80
179.98	60.56	693.62	117.11	78.90	395.30	293.39	172.17	734.71	183.27

226.41	28.23	190.25	288.46	233.81	378.45	305.31	254.77	291.75	493.92
241.21	60.56	53.42	316.82	260.11	346.40	403.11	170.53	150.81	441.73
286.41	42.96	490.63	273.67	173.82	283.53	133.96	97.80	428.17	178.75
312.71	104.75	271.20	144.23	154.92	368.18	694.03	157.79	865.39	297.91
219.02	42.96	245.32	245.73	209.98	214.09	551.86	79.31	427.35	420.37
143.41	52.37	246.14	147.93	578.98	605.28	198.06	130.67	343.52	54.65
127.79	142.80	473.37	332.02	350.51	351.33	548.57	431.05	373.93	542.41
183.27	268.00	226.00	32.05	69.86	274.90	476.25	213.26	399.82	506.25
422.01	168.58	70.68	790.19	458.17	453.24	840.32	126.97	37.80	665.27
330.79	153.44	394.89	169.71	179.98	180.80	311.47	130.26	171.76	130.26
403.11	129.71	459.81	779.50	161.49	267.51	170.12	66.57	128.21	219.43
244.08	164.08	102.32	131.49	197.24	152.86	125.74	104.37	396.12	294.63
76.43	45.42	188.61	163.96	135.19	166.83	814.84	119.99	220.66	463.10
143.82	104.34	152.04	281.48	220.25	116.70	434.75	73.97	333.66	221.07
749.10	173.08	342.29	486.11	841.96	157.79	471.32	76.84	237.92	236.28
306.54	370.29	428.17	254.77	227.24	1130.01	147.11	42.74	417.90	325.86
220.66	245.91	100.67	649.66	282.71	343.11	96.57	205.87	346.81	271.61
348.46	999.59	311.06	81.77	294.21	172.17	101.50	199.29	230.52	197.24
226.41	13.09		526.38	164.78	161.90	45.20	134.37	338.18	380.10
43.97	12.68		469.68	1135.36	198.88	186.14	87.53	176.28	126.97
176.69	507.36		224.77	708.83	405.98	146.29	251.48	120.40	233.40
246.55	307.69		208.33	354.62	261.34	405.57	106.43	360.37	218.20
347.22	244.68		495.56	682.53	127.38	173.00	78.07	207.92	204.64
185.32	45.83		447.07	65.75	344.35	78.07	268.33	801.69	160.67
130.26	102.70		367.77	237.51	467.62	241.62	101.09	330.38	504.19
232.58	1360.06		180.39	173.41	163.96	175.46	157.38	696.50	181.21
225.18	382.57		364.07	322.98	204.64	558.43	31.23	445.02	414.61
42.32	230.36		595.83	322.57	235.45	193.54	396.94	249.84	139.71
388.73	58.10		203.81	283.94	685.40	57.12	166.83	961.95	151.22
434.75	258.59		410.91	378.04	186.14	353.39	119.99	233.81	276.55
42.32	9.82		188.20	851.00	277.37	256.82	162.31	168.48	164.37
118.34	161.21		98.21	447.90	242.85	241.21	117.11	293.39	189.02
62.87	81.01		448.72	624.18	366.95	149.16	171.35	275.31	166.83
198.06	298.28		282.71	135.19	2616.29	170.94	243.26	176.69	64.10
336.13	122.34		166.01	1379.85	938.53	99.85	279.83	227.24	66.16
394.89	287.64		203.40	374.75	935.65	181.62	407.63	369.41	241.62
66.98	233.63		84.24	227.24	260.11	426.94	131.49	615.55	88.35
204.22	133.39		227.24	1172.75	511.59	521.04	310.24	114.23	108.07
332.43	98.61		571.17		659.52	339.00	121.63	73.97	73.97
612.26	164.08		682.53		424.06	577.33	76.02	207.51	228.88
194.77	186.99		157.38			36.98	161.49	583.91	151.63
485.29	83.88		43.97			245.73	78.07		242.44
118.75	57.28		896.61			385.03	318.46		62.46
670.20	110.88		161.49			541.58	246.96		245.32
119.99	238.13		264.63			233.81	290.52		137.66
129.03	49.51					439.68	214.09		276.13

614.32	359.66							812.79	469.26		200.12
532.54	132.16							456.53	376.40		
197.65	73.65								271.61		
205.05	39.69								179.57		
399.41	171.85								270.79		
811.97	263.50								236.28		
137.66	376.02								194.36		
126.97	74.06								220.25		
585.55	270.05								300.79		
763.07									212.85		
173.41									290.52		
982.91									116.29		
471.32									210.39		
									114.23		
									185.73		
									229.70		
									463.92		
									272.85		
									385.03		
									233.40		
									83.83		
									228.88		
									327.09		
									443.38		
									298.73		
									470.91		
									453.65		
									339.42		
									171.76		
									360.37		
									507.07		
									221.89		
258.08	196.38	418.71	339.81	364.19	434.24	315.32	235.25	392.62	252.02		
176.15	189.38	250.40	246.23	284.81	467.36	208.29	134.57	237.49	129.42		
Group Mean						320.66					
Group StDev						82.56					

**TAB 2b**

Males - Group 1 (10mg) 5-  
Day Old Rat Study

57A	58A	60A	62A	63A	65A	253	257	259	265
41.09	128.62	217.45	151.22	314.76	293.80	102.73	98.21	137.66	114.65
61.64	446.66	92.09	165.19	285.59	189.02	257.64	136.42	48.49	314.35
139.30	339.42	98.99	100.26	297.50	159.44	200.12	59.17	115.47	366.54
108.07	713.76	52.74	237.51	275.31	117.52	362.02	103.14	115.88	264.63
78.90	250.25	277.90	66.57	162.72	156.97	55.06	297.91	141.35	108.89
159.85	297.91	38.14	128.62	347.22	140.94	92.05	476.66	94.51	207.10
216.96	287.23	148.89	180.39	371.47	159.44	454.06	339.42	26.30	59.17
34.93	150.39	94.53	154.92	196.83	507.48	366.95	349.69	204.22	129.44
117.52	467.21	311.98	224.36	114.65	230.93	199.29	180.80	99.03	256.82
216.55	385.03	99.40	65.75	187.38	220.25	189.43	225.59	84.65	133.14
159.85	205.87	315.23	60.40	733.07	168.48	99.85	142.18	84.24	75.20
17.26	377.63	98.58	92.05	130.26	49.31	186.14	356.26	94.10	318.46
91.22	287.64	157.00	252.30	264.22	69.44	486.11	473.37	83.42	172.58
46.43	246.55	319.69	107.66	78.90	310.65	159.02	148.75	133.14	145.46
99.85	155.74	60.45	104.37	269.56	273.67	177.10	285.59	93.28	36.57
62.05	210.39	339.97	188.20	34.11	228.88	198.06	543.64	103.96	148.75
82.18	414.61	137.94	255.59	183.68	383.38	126.15	729.37	127.38	147.93
66.57	242.85	247.88	127.79	202.17	251.89	401.05	441.32	199.29	270.79
204.64	808.68	98.58	287.23	184.91	174.23	326.68	426.94	164.37	140.53
90.81	145.87	240.98	200.12	249.84	162.72	122.45	661.98	133.55	138.89
204.64	367.36	148.89	260.52	110.13	179.57	401.05	374.34	129.44	366.12
32.87	70.68	254.78	197.65	357.08	218.20	767.18	622.12	107.25	120.81
108.07	130.26	160.66	203.81	136.42	231.35	490.22	350.51	83.01	131.90
196.42	438.86	48.28	113.00	208.74	467.21	744.58	240.39	168.89	263.40
26.71	281.48	224.35	53.42	362.43	164.37	222.30	331.20	91.63	129.44
120.40	334.90	305.90	189.43	135.60	149.16	397.77	525.97	61.23	454.47
159.44	553.91	103.45	79.31	85.88	516.93	353.39	273.67	178.75	305.31
22.19	467.62	182.16	156.15	343.52	471.73	238.33	1023.18	117.93	323.80
204.64	91.63	128.61	113.82	82.59	488.17	484.47	101.50	376.40	145.87
91.63	122.04	47.47	137.66	286.41	148.75	364.48	277.78	81.77	158.61
219.02	95.74	205.28	310.65	66.98	167.24	428.99	262.57	126.56	322.16
62.05	197.24	180.54	170.12	121.22	830.87	289.28	180.80	97.39	92.05
86.29	138.48	157.82	101.09	214.50	340.24	533.37	219.43	140.94	77.25
443.38	643.08	50.71	103.55	416.67	238.33	433.10	310.65	204.22	133.96
83.01	952.09	159.84	150.81	160.67	418.72	838.68	256.00	101.50	123.27
246.55	162.31	152.54	216.55	72.73	364.89	542.00	596.24	118.75	657.46
80.54	238.74	141.59	132.31	110.54	272.44	310.24	258.05	217.78	310.24
82.18	179.98	181.35	82.18	138.07	292.98	147.52	170.94	81.36	183.68

39.04	145.46	114.41	90.81	287.64	443.38	193.13	163.13	50.95	366.95
16.44	89.58	83.17	220.66	419.95	125.74	184.09	254.77	71.09	398.59
59.58	277.78	80.73	155.74	182.04	190.25	212.03	295.04	219.02	104.37
37.39	110.95	103.05	207.92	248.19	466.80	344.35	381.33	175.05	449.95
178.75	378.04	81.95	93.28	267.92	349.28	57.94	607.74	43.15	292.98
155.74	278.19	93.31	114.23	81.77	334.48	186.14	334.48	103.14	209.98
104.37	253.53	83.57	151.22	358.73	145.05	130.67	140.94	147.52	49.72
46.43	72.32	92.50	126.15	309.01	172.17	309.83	177.93	67.80	97.39
28.76	348.46	112.38	163.54	192.31	78.90	227.24	434.34	37.80	77.25
173.00	175.87	247.48	141.35	246.14	221.89	230.52	401.46	85.06	255.59
68.62	254.77	121.71	101.50	125.74	163.54	309.42	374.75	141.35	109.30
62.05	240.80	104.67	106.84	150.81	408.45	101.09	103.96	80.54	186.97
101.09	152.45	180.13	52.60	213.26	555.56	203.81	817.72	93.28	137.66
183.68	69.86	134.69	52.19	398.18	428.17	247.37	287.64	297.09	327.09
119.58	119.17	110.76	173.82	147.11	481.18	145.87	1004.68	78.49	323.39
161.90	183.68	153.35	215.73	239.15	178.34	454.06	453.65	69.86	233.40
98.21	105.61	168.77	152.45	439.27	374.34	373.52	244.08	101.09	249.84
87.11	326.27	166.74	198.88	334.07	145.05	209.16	74.79	232.17	253.53
57.94	192.31	166.34	183.68	278.60	125.74	113.00	133.96	179.16	76.02
67.80	542.41	106.70	152.86	394.48	286.00	256.41	626.23	92.87	276.13
243.26	70.68	32.05	117.11	271.61	105.61	152.04	348.87	60.82	198.06
25.48	83.42	93.72	270.79	101.09	144.23	641.85	101.09	108.48	162.72
69.44	176.69	42.19	130.67	84.65	147.93	316.40	638.15	182.04	73.97
80.13	123.27	83.98	107.66	189.84	144.64	242.03	175.05	124.10	116.70
228.88	74.79	223.94	160.67	167.65	51.36	228.47	539.53	91.63	298.73
92.87	99.44	169.99	70.27	221.07	23.83	104.37	377.22	54.65	481.59
180.39	229.70	87.63	87.94	35.34	49.31	147.52	138.89	408.04	55.88
148.75	137.66	366.75	48.49	128.21	382.15	102.73	393.25	139.30	216.55
110.13	89.58	50.71	291.75	228.88	111.36	78.49	210.80	306.54	156.15
156.97	208.74	111.57	79.31	8.22	328.32	252.30	551.04	462.69	81.36
86.29	233.81	212.18	191.49	138.89	234.22	295.45	921.27	168.06	230.52
127.38	264.63	64.91	248.60	216.96	62.46	348.87	332.43	285.17	253.53
111.77	92.46	168.77	133.14	209.57	253.53	228.06	503.37	144.23	162.72
97.80	248.60	83.98	207.51	297.50	169.30	476.66	408.04	185.73	283.53
124.10	947.16	123.33	111.36	190.25	119.99	501.32	282.30	334.07	205.46
127.79	338.18	41.38	104.37	390.78	152.04	237.10	1025.23	92.87	246.14
64.92	298.73	271.41	192.31	132.31	77.66	159.85	397.35	51.78	219.43
13.56	105.19	124.14	80.54	284.76	217.37	169.30	152.04	84.24	135.60
74.38	53.42	69.37	115.06	387.49	234.22	567.47	184.91	86.70	150.39
41.50	240.80	373.24	193.95	156.15	131.49	97.39	248.60	47.26	194.77
26.30	206.28	105.48	170.12	154.50	110.95	344.35	378.86	36.98	216.14
209.57	112.18	442.61	176.28	358.32	98.21	199.70		209.57	197.65
12.33	437.21	62.48	164.37	65.75	119.99	239.15		286.82	67.80
229.29	125.74	156.60	167.24	217.78	115.47	346.40		255.18	205.05
112.59	174.64	245.85	187.38	162.72	306.54	778.27		82.59	199.29
47.67	174.23	194.73	233.40	218.61	140.12	295.86		152.86	167.24

61.64	495.97	36.51	207.51	232.58	297.91	238.74	336.54	161.49
107.66	249.01	167.15	152.86	184.09	348.04	161.90	87.53	697.32
147.93	136.83	166.74	122.04	248.60	355.03	175.87		223.54
88.76	65.34	329.83	46.43	39.86	266.68	274.08		38.22
122.86	245.32	62.07	172.58	147.52	147.11	151.63		43.56
96.98	58.35	194.33	46.84	151.22	309.01	361.19		288.05
106.02	252.30	288.45	88.76	126.97	52.19	184.50		89.99
257.23	335.31	88.44	361.60	219.43	352.98	200.53		210.80
63.28	337.77	487.65	178.34	285.17	42.32	119.58		57.12
50.54	320.92	192.30	117.11	307.78	170.94	159.02		165.19
76.84	74.38	505.50	50.54	56.30	129.03	179.16		244.08
71.50	225.59	211.77	106.43	144.64	315.58	102.73		239.15
62.87	330.79	222.32	77.66	291.34	57.94	145.87		470.09
30.41	94.51	108.32	78.07	150.81	228.47	436.39		290.11
71.50	332.43	88.44	321.75	192.72	74.79	243.67		38.22
240.39		168.77	33.70	124.92	207.10	190.66		599.93
272.85		167.96	160.26	97.39	100.67	164.78		124.10
13.56		193.11	118.75	28.76	136.42	276.55		160.26
133.55		162.68	185.73	251.89	70.68	318.87		247.78
358.73		212.59	68.62	182.86	310.65	433.93		177.10
341.06		150.11	71.91	294.21	69.44	361.19		167.65
114.65		65.72	71.50	362.84	155.74	238.74		278.19
45.61		168.77	154.09		145.87	49.31		99.03
311.06		353.77	154.50		46.43	249.01		177.93
46.02		119.28	222.72			142.59		
71.50		174.45	111.36			424.89		
51.36		198.39	174.64			163.13		
150.39		327.40	43.15			283.53		
439.27		112.38	101.09			289.28		
131.90		125.36	78.07			202.99		
273.67		356.20	64.92			102.73		
124.10		77.49	432.28			80.54		
54.65		130.23	147.93			411.33		
27.94		226.38	219.02			187.38		
40.68		467.36	34.11			180.39		
135.19		101.83	58.76			84.65		
283.53		72.62	76.43			214.09		
10.27		165.52	121.22			269.15		
26.71		77.89	51.78			128.21		
111.77		202.44	90.81			362.84		
29.59		142.81	201.76			213.26		
94.92		112.78	69.03			268.33		
129.85		126.58	99.85			243.67		
59.99		67.75	156.15			343.11		
83.42		126.17	69.86					
141.77		64.10	100.26					

123.27		242.20	46.02									
171.76		137.94	75.20									
57.53		69.78	133.55									
		212.99	264.22									
		148.89	141.35									
		191.49	222.72									
		363.10	216.14									
		129.42	64.92									
		117.25	34.52									
		146.46	109.30									
		142.40	272.44									
		191.49	159.85									
			222.72									
			131.08									
			84.24									
			96.57									
			151.63									
			97.80									
			343.94									
			192.72									
			82.59									
			13.97									
			99.85									
115.60	255.03	163.76	143.46	214.62	225.07	270.34	360.41	139.56	209.18			
83.50	177.56	95.97	73.10	113.38	139.47	154.13	222.37	87.36	125.29			
			Group Mean			209.70						
			Group StDev			73.77						

Males - Group 2 (3mg) 5-  
Day Old Rat Study

67A	68A	69A	71A	72A	74A	270	273	278	280
96.98	303.25	163.54	99.03	216.86	88.35	210.39	705.13	336.95	199.29
179.98	133.96	145.87	43.56	67.10	59.99	493.10	279.01	317.64	176.28
262.16	140.12	490.22	533.37	200.90	269.97	452.83	228.47	200.12	197.65
661.98	481.59	398.18	265.45	90.43	47.67	453.65	315.99	151.63	78.07
79.72	578.57	59.58	374.75	205.40	216.14	589.66	560.90	292.16	58.35
168.06	85.06	209.98	161.90	125.61	122.45	59.58	165.19	225.18	94.92
246.96	232.58	89.17	58.35	131.75	455.70	75.20	49.31	357.08	108.07
286.41	173.82	227.65	306.54	139.93	183.27	166.83	160.26	51.78	63.28
620.89	325.03	58.35	232.99	133.80	440.50	269.97	189.84	170.12	325.03
180.39	60.82	312.71	188.20	297.87	237.92	141.35	118.34	160.67	235.45
388.73	139.71	79.72	69.86	137.07	431.46	164.78	106.43	165.60	138.89
231.35	62.05	309.01	211.62	63.83	85.06	613.91	174.64	463.92	127.79
152.86	121.22	165.19	67.80	67.51	80.95	507.07	491.04	115.88	116.70
64.10	277.78	207.10	173.41	90.83	62.05	267.09	28.35	168.48	73.14
355.85	102.32	103.96	103.55	205.81	99.85	73.97	79.31	542.41	163.13
337.36	168.48	45.61	125.74	134.21	159.44	436.80	189.02	320.92	98.62
212.03	205.05	244.49	300.79	123.57	51.36	76.84	231.35	213.68	185.73
191.49	147.52	488.58	69.03	79.38	55.47	638.15	96.15	339.42	179.98
120.40	201.76	634.04	151.63	391.57	143.82	87.11	278.19	105.61	184.91
179.57	96.98	219.02	94.92	55.65	200.53	119.99	219.84	223.54	295.45
109.71	348.46	207.92	71.50	40.92	34.93	290.52	110.54	47.67	170.94
42.32	162.72	351.33	259.70	90.02	154.50	199.29	161.49	202.58	171.76
195.18	119.17	110.95	120.40	246.32	123.69	149.57	190.66	102.73	133.55
281.48	144.64	163.13	226.41	90.43	45.20	386.67	394.48	119.17	132.73
111.36	171.76	140.53	73.55	147.30	69.03	146.70	95.33	134.78	103.14
85.47	75.61	149.16	193.95	225.86	89.58	462.28	189.02	172.58	147.11
103.96	124.92	100.67	402.70	91.65	152.04	235.87	101.91	283.94	649.66
233.81	168.06	453.65	190.25	358.43	62.05	382.56	140.53	362.02	553.91
202.99	173.82	168.48	148.34	208.67	149.57	217.78	115.88	76.84	184.50
171.35	119.99	166.42	34.11	47.46	104.78	105.61	274.90	133.14	551.04
59.99	253.53	135.19	249.43	95.74	168.06	106.43	88.35	514.88	123.27
243.26	432.69	109.71	140.53	355.56	60.82	48.49	131.49	96.98	310.65
139.30	135.60	514.88	117.11	154.66	189.02	186.97	115.06	160.26	117.52
281.07	241.21	540.35	140.94	154.66	180.39	359.14	89.17	201.35	162.72
339.42	100.26	64.92	82.59	195.58	96.15	624.59	60.82	219.02	231.76
273.67	241.62	242.44	116.70	277.82	137.25	189.84	152.45	571.58	264.63
347.63	339.83	1083.99	276.55	273.32	159.02	200.94	126.56	643.90	588.43
292.57	425.71	353.80	257.23	176.35	159.02	78.90	133.96	89.99	175.05
412.56	148.75	92.87	366.12	35.19	145.46	528.44	146.29	126.15	377.63
695.27	329.14	245.32	92.87	87.56	181.62	377.22	70.27	210.80	325.03
372.70	85.88	323.39	147.52	112.11	112.18	277.37	36.98	212.44	221.48
260.93	199.29	41.91	189.02	95.74	23.01	139.30	180.39	216.96	280.65

54.24	167.24	260.11	348.87	270.87	57.94	157.38	253.12	348.87	77.25
186.97	62.46	126.56	134.78	220.54	174.64	233.81	324.21	167.65	151.63
259.70	152.86	364.89	144.64	88.79	207.51	509.12	339.42	214.09	67.39
576.92	260.52	458.17	61.23	130.52	161.08	326.68	562.95	227.65	85.88
147.52	200.12	324.21	381.33	314.24	24.66	24.24	185.32	158.20	315.17
400.23	364.89	317.64	87.94	160.39	370.64	339.00	191.08	119.17	123.69
147.11	71.91	393.66	324.62	83.88	313.94	258.88	369.00	141.35	27.94
407.63	677.19	765.12	277.78	227.50	64.51	72.73	487.34	184.91	129.44
157.79	416.26	355.85	88.76	82.65	88.76	369.82	115.06	178.34	129.44
897.44	244.91	414.20	126.97	118.25	127.79	234.63	221.48	175.46	273.67
747.86	97.80	204.22	241.21	213.17	204.22	209.57	236.69	380.92	123.69
55.88	150.39	490.63	159.85	243.45	74.79	258.88	115.06	152.45	83.83
33.28	161.90	306.95	101.91	242.63	136.01	454.06	190.25	453.65	140.53
415.02	173.82	407.22	173.82	103.93	542.41	125.74	133.96	643.49	190.66
207.51	145.05	724.44	79.72	32.73	230.11	301.61	130.26	312.71	205.05
87.94	289.69	276.13	170.94	243.45	157.79	529.67	186.97	131.08	355.85
453.24	184.09	210.80	30.82	177.17	67.80	272.44	113.00	150.39	52.60
192.72	175.46	42.32	222.72	149.35	106.43	115.88	185.73	132.73	423.65
62.05	220.25	349.28	480.77	117.84	83.83	424.89	122.86	241.21	87.53
524.33	61.23	21.37	421.19	117.43	147.11	189.02	107.25	372.70	204.64
436.80	138.89	80.13	367.36	70.38	65.75	401.46	114.23	159.85	209.16
91.63	119.99	35.75	149.16	83.47	82.59	168.89	262.57	44.38	183.27
153.68	71.91	255.18	410.09	99.84	230.93	306.95	83.42	98.62	67.80
171.76	105.19	560.90	171.35	148.53	71.91	419.54	161.49	52.60	121.22
111.77	94.51	763.07	83.42	140.75	104.37	360.78	222.72	349.28	85.88
189.84	256.00	384.62	151.63	127.66	221.48	308.60	156.97	392.83	224.77
49.31	140.53	256.00	380.92	124.80	73.55	276.96	77.25	251.89	131.90
232.58	153.27	1883.22	469.68	181.26	121.63	331.61	241.62	144.64	98.21
285.17	227.24	325.44	41.09	202.54	62.05	159.44	73.55	248.19	166.42
220.25	128.21	182.86	355.85	139.93	249.84	168.48	186.14	144.64	252.71
231.35	91.63	76.84	48.08	184.12	64.51	444.61	140.53	139.71	13.56
247.78	127.38	121.63	244.08	59.74	77.66	108.07	99.85	162.31	20.55
296.68	175.87	115.47	442.97	184.53	30.41	146.70	137.66	144.64	46.84
275.72	295.04	42.74	175.87	124.80	106.02	201.35	152.86	224.36	140.12
335.31	64.10	58.76	263.40	130.11	79.31	260.52	188.61	388.73	147.93
436.39	119.58	571.99	302.43	150.16	75.61	73.14	258.05	159.44	490.63
378.86	230.93	488.58	322.98	152.62	295.86	105.19	91.63	188.20	148.75
113.00	310.24	109.30	440.91	34.78	61.64	186.14	62.05	152.04	162.72
240.80	253.12	121.63	283.12	18.00	40.68	342.70	128.62	312.30	73.55
141.35	358.73	139.71	88.76	87.97	264.22	294.21	253.12	602.40	168.89
152.45	155.33	337.36	260.93	70.38	358.32	301.61	145.05	191.90	174.64
355.03	167.24	117.11	160.26	113.34	110.54	460.22	282.30	173.82	166.83
196.42	96.57	128.21	587.61	238.95	85.47	169.30	137.66	399.82	122.45
342.70	134.78	80.95	103.14	58.92	72.73	104.78	83.01	150.39	170.12
130.26	105.61	438.45	99.03	153.03	53.83	193.95	176.28	260.11	107.25
299.97	224.77	73.14	79.72	41.33	92.46	466.80	513.64	116.70	278.19

142.18	94.10	512.00	129.44	13.50	107.25	123.27	257.23	149.98	230.93
469.26	136.42	167.24	49.31	51.56	94.10	158.20	176.69	104.78	431.05
166.01	94.92	313.94	40.27	51.96	43.56		115.47	164.37	157.79
169.71	52.19	184.50	50.54	82.24	50.54		774.16	315.99	109.30
171.76	253.95	415.43	208.74	27.82	167.24		171.76	123.27	168.48
595.41	196.83	280.65	156.15	99.84	245.32		327.09	25.89	208.74
20.55	407.63	162.31	104.37	65.88	147.52		400.64	204.64	166.83
101.91	69.86	175.05	161.08	139.93	118.75		140.12	58.35	501.32
69.44	60.40	78.07	85.06	49.92	70.68		163.54	187.38	
251.07	80.54	50.54	359.96	107.61	59.17		239.15	117.52	
253.95	443.79	215.73	284.76	18.00	262.57		117.93	280.24	
58.76	93.28	95.74	237.51	153.44	46.84		326.68	108.07	
172.17	224.36	699.38	147.93	52.37	129.85		69.03	92.46	
272.03	135.60	462.28	130.67	124.80	124.10		56.71	145.05	
232.99	257.64	364.89	263.81	45.42	267.92		111.77	200.12	
44.38	129.03	244.91	225.18	22.50	64.10		262.16	396.12	
321.75	262.99	153.68	341.88	294.60	307.78		451.18	260.93	
78.49	187.38	25.07	207.92	30.28	301.61		356.67	159.02	
94.51	125.33	304.49	329.55	33.96	119.99		663.22	244.08	
67.39	276.55	124.92	78.49	94.11	328.73		215.73	191.90	
100.67	412.56	321.75	538.71	11.05	193.54		30.00	251.48	
262.57	292.16	255.59	174.64	38.05	121.63		123.69	267.51	
140.53	209.98	55.06	229.70	29.87	72.73		84.65	198.47	
100.67	155.74	262.99	322.16	171.44	167.65		161.90	98.62	
197.24	394.48	251.48	20.96	70.79	102.73		237.92	251.07	
98.21	288.87	290.11	320.51	88.38	87.53		178.75	515.29	
132.73	122.04	154.09	75.61	70.38	126.97		509.94		
299.15	429.82	425.71	288.87	85.92	37.80		825.12		
274.49	113.41		158.61	62.19	50.13		101.50		
241.62	72.32		276.55	38.46	146.29		324.21		
135.19	124.10		240.80	56.06	104.78		385.85		
278.60	137.66		405.98	107.61	239.97		245.32		
235.04	168.06		101.91	94.52	184.50		615.14		
76.02	176.69		223.54	151.39	1.64				
104.37	24.66		264.63	27.82	220.25				
73.97	203.81		223.95	89.61	207.92				
106.43	63.28		114.23	115.38	97.80				
198.47	222.30		318.05	37.23	242.85				
153.68	216.96		281.48	180.03	152.45				
329.96	133.14		161.08	35.60	164.37				
72.73	166.83		396.53	80.61	212.44				
417.08	155.33		104.78	108.84	279.01				
125.74	113.41		346.40	116.20	104.78				
308.19	66.57			72.01	125.74				
380.92	65.34			33.14	48.49				
87.11	372.29			207.45	243.26				

86.70		54.42	96.57
275.31		126.84	147.11
			547.34
			338.18
			195.18
			375.16
			421.19
			164.78
			95.33
			276.13
			425.71
			317.23
			276.55
231.27	191.71	276.06	208.06
154.67	113.92	240.71	124.42
			78.55
			108.10
			152.43
			155.37
			223.47
			190.38
			130.04
			126.88
Group Mean		208.41	
Group StDev		46.14	

Males - Group 3 (1mg) 5-  
Day Old Rat Study

75A	76A	77A	80A	82A	84A	282	286	288	293
229.62	50.71	201.35	570.76	359.55	326.27	95.33	32.46	163.13	100.67
190.27	331.86	124.92	291.34	360.78	65.34	265.45	113.82	125.74	152.86
189.05	161.87	279.42	257.64	405.16	651.71	212.03	140.53	119.58	459.81
169.18	462.09	663.22	317.23	405.57	117.52	180.80	104.37	110.13	127.38
436.94	129.01	150.39	441.73	309.42	39.45	237.51	248.19	170.12	577.75
122.52	363.10	267.09	898.26	349.28	617.19	298.73	107.66	69.44	179.57
319.69	417.87	211.62	117.11	792.24	196.83	239.97	83.83	106.02	90.81
129.42	432.07	258.47	1113.58	347.63	238.74	389.96	92.87	71.50	130.26
830.05	67.35	105.61	151.63	106.84	636.10	494.74	283.12	105.19	101.50
50.31	738.37	629.93	157.38	598.70	611.85	82.18	84.65	35.34	216.96
173.23	284.80	183.27	294.63	362.43	343.94	177.93	277.37	62.05	74.79
490.08	165.52	358.32	344.35	256.82	106.84	333.66	155.33	43.15	129.85
186.62	89.66	183.68	131.49	484.47	339.00	101.50	339.42	58.35	204.22
434.10	263.30	224.77	222.72	138.07	531.31	319.28	224.36	43.97	142.59
168.77	170.80	279.83	592.13	198.88	692.39	210.39	163.96	120.40	106.02
77.89	219.48	512.41	2404.26	612.67	200.12	355.03	540.35	49.31	88.35
645.06	178.51	53.83	171.76	217.78	434.75	193.54	138.48	96.57	55.88
497.38	180.94	242.03	279.42	232.99	196.42	432.69	143.00	68.62	274.49
302.24	617.47	171.76	428.99	321.75	554.32	53.42	208.33	73.55	202.99
131.04	253.56	129.85	1086.87	302.43	899.49	57.53	196.01	48.90	71.91
370.40	1243.05	130.67	269.97	209.98	313.53	276.96	186.56	62.46	126.15
231.65	118.87	281.48	434.34	412.97	834.57	286.82	141.35	77.66	118.34
235.30	377.70	128.21	101.91	272.44	167.24	71.91	212.85	77.25	219.43
172.02	716.87	71.50	571.99	442.55	719.92	20.96	159.44	344.76	177.10
367.56	67.75	118.75	319.28	375.99	353.39	179.98	324.21	97.80	148.34
104.26	785.43	242.03	613.08	438.03	2626.97	152.45	134.37	246.96	196.83
154.57	305.90	576.10	369.41	226.82	717.87	236.69	73.55	118.34	106.02
139.15	47.47	270.38	239.97	604.87	323.39	324.62	136.01	60.40	195.60
263.70	2.43	331.61	42.74	268.74	258.88	83.83	381.74	73.14	62.87
420.30	124.14	309.83	631.58	309.01	412.15	234.63	594.59	95.33	358.32
451.54	30.83	223.54	193.13	309.42	839.09	89.58	188.20	25.89	183.27
120.49	475.48	441.73	198.88	645.55	1031.39	107.66	277.78	62.87	138.48
575.68	222.73	194.36	145.05	263.81	214.91	246.96	301.20	82.59	135.60
252.34	61.67	96.98	446.25	432.28	735.13	309.83	111.36	61.23	66.57
168.77	318.88	672.26	320.92	290.93	1129.60	179.16	118.75	147.52	246.14
359.45	118.87	189.43	61.64	497.21	269.56	441.73	108.48	155.74	259.29
105.08	197.57	175.87	211.21	447.07	374.75	236.69	617.60	94.51	141.35
507.93	461.68	97.39	196.83	798.82	657.05	161.49	211.62	85.06	135.60
110.76	152.54	121.22	565.42	346.40	981.67	93.28	316.40	166.42	386.67
671.83	152.54	315.99	148.75	374.34	232.17	87.53	468.44	86.70	497.21
558.64	374.86	240.39	380.10	130.67	816.49	103.96	192.31	74.79	285.59
354.58	96.96	222.30	113.00	445.84	238.33	61.23	324.21	162.31	192.72

277.09	176.88	101.91	567.47	783.20	1444.77	108.07	49.72	55.06	521.45
422.74	356.20	156.15	111.77	160.67	1041.67	427.35	209.57	152.45	50.54
574.87	141.99	81.77	305.72	402.29	199.29	324.62	347.63	110.54	381.74
671.83	305.08	142.59	62.05	124.51	427.76	246.96	87.11	163.54	368.18
200.41	289.67	166.42	193.54	629.52	520.63	400.23	62.87	243.26	815.66
789.08	269.79	480.36	456.94	722.80	532.96	227.24	279.83	140.94	41.50
535.11	278.31	160.26	85.06	212.85	706.36	163.13	436.80	55.88	124.51
388.66	114.00	243.26	33.70	302.43	366.54	425.71	262.57	111.36	611.44
237.33	221.51	67.80	311.88	334.48	280.65	197.24	110.54	85.88	142.18
190.27	544.85	172.58	115.47	170.12	90.81	258.05	116.70	50.13	202.99
160.25	101.83	232.99	378.45	429.41	469.68	249.01	113.00	41.50	39.04
139.97	437.75	77.66	346.81	981.26	395.30	180.80	225.18	123.27	248.19
281.55	760.68	124.10	108.07	86.70	906.89	140.94	100.26	300.38	304.90
277.09	216.24	304.08	274.90	612.26	283.53	154.09	140.53	80.95	146.29
400.02	255.18	79.31	652.12	110.13	1345.33	415.43	304.08	148.34	73.14
292.91	312.39	231.35	442.14	315.99	803.34	69.44	74.38	154.50	80.54
855.21	208.53	245.73	313.53	315.99	3335.39	182.04	90.81	105.61	215.73
520.91	307.52	30.00	104.78	96.57	745.40	88.76	90.40	73.97	96.57
71.40	378.11	211.62	112.18	649.24	181.21	431.46	30.82	129.85	156.97
301.03	471.01	98.62	265.86	292.57	564.60	242.44	216.96	105.19	352.56
413.00	239.77	53.83	242.85	470.91	275.31	282.30	199.29	173.00	123.27
198.79	79.92	80.95	183.68	187.79	316.40	247.37	94.10	65.34	166.83
342.81	277.90	215.32	309.42	126.56	284.76	353.39	108.07	39.45	420.78
164.31	425.98	242.44	163.54	328.32	1527.78	88.76	45.61	31.64	204.22
14.20	306.30	121.22	578.57	56.71	343.52	168.06	138.48	59.17	29.59
609.76	221.10	338.18	1.64	308.19	404.34	312.71	325.03	143.00	43.15
408.13	242.20	478.30	220.25	149.16	239.97	326.27	125.33	193.54	45.20
132.26	167.15	209.16	359.96	283.94	205.46	169.71	124.51	119.58	193.95
165.52	308.74	25.07	936.06	131.49	241.21	137.25	97.80	60.40	216.14
239.36	178.91	98.21	977.98	319.69	692.80	181.62	113.41	100.67	341.47
324.56	335.51	120.81	709.65	383.38	678.01	134.78	73.55	189.84	183.68
249.91	350.93	72.32	750.74	133.96	50.54	232.58	64.10	144.23	100.67
456.41	340.79	149.57	117.52	267.09	236.28	209.16	219.84	170.94	142.59
267.76	582.17	131.08	189.43	626.64	786.08	895.38	50.54	64.92	122.45
330.64	248.29	271.20	706.36	326.68	310.65	173.41	327.91	113.41	167.65
518.89	212.18	117.52	1830.21	385.44	1000.58	53.01	46.02	95.33	14.79
170.39	198.79	154.92	291.75	559.25	1346.57	275.31	101.09	78.07	74.38
133.47	77.89	61.64	239.15	651.71	776.22	418.31	43.97	121.63	87.53
244.64	101.02	524.74	357.50	473.78	1296.43	261.75	547.34	58.35	151.22
188.24	360.66	312.30	350.10	556.79	1212.61	203.40	176.69	56.30	99.03
124.14	229.62	186.14	115.47	286.00	618.01	328.32	90.40	73.14	265.04
255.18	29.62	57.94	274.08	231.35	297.91	64.10	48.90	154.50	242.85
196.36	73.43	166.83	498.85	592.54	447.49	472.96	108.48	46.84	66.98
150.92	84.79	84.65	110.54	319.28	420.78	178.75	133.96	73.97	221.89
156.19	507.53	55.88	376.40	245.73	219.02	93.28	104.78	44.38	138.89
275.06	155.38	175.05		641.03	494.33	479.54	133.55	203.81	266.68

223.94	116.03	215.73	629.52	303.67	322.98	281.89	101.09	51.78
304.68	37.73	189.43	711.70	341.88	229.29	153.68	47.67	125.74
71.40	326.99	348.46	645.14	679.24	262.57	90.40	240.80	195.18
295.35	577.31	253.12	223.54	385.85	115.88	305.31	61.64	126.15
111.16	252.75	152.45	372.70	961.13	341.88	289.28	122.04	183.27
284.39	941.62	60.40	402.70	403.11	454.88	109.71	156.56	302.43
90.07	212.59	392.42	833.33	1514.22	137.25	85.06	108.89	249.84
256.40	385.82	132.73	113.00	824.29	289.69	152.45	100.26	125.33
319.69	280.34	190.25	267.51	682.53	231.35	318.87	268.74	386.26
69.78		160.67	276.13	618.43	347.22	322.98	41.91	169.30
102.64		299.56	434.75	4121.06	170.94	110.13	142.59	430.64
379.33		160.67	88.76	759.78	368.59	64.92	175.87	203.81
185.40		33.28	505.42	223.54	161.90	106.84	207.92	98.62
199.60		80.95	222.30	683.76	329.55	94.92	163.13	41.09
161.87		267.92	385.03	2034.02	216.55	184.50	69.44	478.72
229.22		114.65	409.27	405.98	380.92	43.56	572.81	51.36
391.09		43.97	335.31	103.14	687.87	408.45	269.15	69.03
494.54		173.00	256.41	710.47	370.23	138.89	46.84	117.93
401.64		399.00	516.93	295.45	521.45	40.27	165.60	346.81
308.74		334.07	609.80	565.01	129.03	124.92	207.92	50.13
90.88		123.27	438.86	110.54	581.85	106.43	40.68	107.66
121.71		340.65	925.38	392.42	651.71	164.78	78.90	118.75
232.46		98.62	243.26	419.54	755.67	65.34	116.29	180.80
549.72		136.42	218.20	439.68	396.53	162.31	213.26	31.64
365.94		145.05	96.15	660.75	191.49	326.27	71.50	295.04
199.20		59.17	603.22	915.11	135.19	228.88	232.99	325.03
253.56		240.80	159.02	501.32	493.92	111.36	138.89	294.63
700.23		125.74	476.25		353.80	110.95	72.32	53.42
351.33		152.86	271.20		164.37	155.33	76.84	215.32
239.36		181.21	145.87		178.75	256.82	57.12	159.44
305.90		247.37	109.30		123.27	213.26	272.85	165.19
221.51		62.87	125.33		448.31	265.86	125.33	119.58
		244.91	146.70		645.14	405.98	92.46	161.49
		118.34	467.62		410.50	94.92	92.87	132.73
		419.13	376.40		1270.55	30.41	329.14	75.61
		220.25			423.24	248.60	89.99	46.84
		295.04			153.27	487.76	351.74	57.94
		78.49			348.46	87.11	148.34	111.77
		210.39			567.88	46.43	108.48	193.13
		125.74			120.81	74.38	133.14	303.67
		239.97				46.02	138.89	176.28
		68.21				162.72	168.06	73.97
		41.91				59.99	41.91	113.00
		54.65				189.43	147.52	63.69
		98.62					121.22	32.46
		272.03					144.23	138.89

281.48	50.13	45.20
444.20	117.93	281.48
94.51	44.79	297.50
102.73	156.97	238.33
273.26	77.66	157.79
260.93	155.33	247.37
251.89	115.88	
138.89	103.14	
249.84	418.31	
148.34	147.52	
133.96	100.26	
138.89	58.35	
88.35	105.61	
264.63	141.35	
439.68	64.92	
244.91	206.69	
152.86	87.11	
131.90	73.97	
248.60	43.56	
65.34	183.68	
283.12	41.09	
239.56	109.71	
276.55		
48.49		
215.73		
116.70		
28.35		
106.43		
130.26		
95.74		
463.10		
239.15		
144.64		
342.70		
145.87		
254.36		
70.68		
14.79		
107.25		
124.92		
430.23		
339.42		
119.99		
223.13		
302.02		
149.57		

**204.22**

**136.83**

294.17	285.03	200.61	379.11	370.13	621.47	272.49	180.15	120.44	184.22
174.45	207.78	125.46	362.20	196.02	584.89	180.77	123.43	77.98	130.36

<b>Group Mean</b>	<b>290.78</b>
<b>Group StDev</b>	<b>143.21</b>

Males - Group 4 (0.1mg) 5-  
Day Old Rat Study

85A	86A	87A	90A	91A	92A	297	301	303	306
105.19	198.06	712.94	221.07	250.66	184.09	60.40	196.83	133.55	79.72
32.87	208.74	189.43	89.58	74.38	191.90	396.94	316.82	239.56	79.72
402.29	160.26	276.96	354.62	277.37	212.03	280.65	271.61	113.41	255.59
430.23	404.75	180.39	195.18	90.81	422.83	245.32	113.82	101.50	426.53
260.93	309.83	121.63	89.17	461.87	87.11	232.99	255.18	361.19	225.59
543.23	124.10	373.93	313.94	126.15	211.21	176.69	431.05	232.99	532.13
95.33	313.94	244.91	434.34	235.87	187.79	209.98	307.36	145.46	54.24
229.70	73.97	212.85	195.60	387.49	139.71	144.64	219.43	623.36	100.26
201.35	160.67	456.11	732.66	217.37	106.84	356.67	294.63	264.22	166.01
459.81	21.78	315.17	155.33	410.91	159.85	175.87	366.12	201.76	417.08
301.20	92.87	130.26	345.58	279.42	122.86	62.05	547.75	128.62	244.49
129.03	278.60	179.57	103.55	441.32	112.18	68.21	230.93	305.72	149.57
378.86	163.96	119.17	148.34	225.18	180.39	85.06	226.41	244.08	185.32
393.66	176.69	444.20	520.63	175.87	64.92	161.90	209.98	103.55	176.69
286.00	123.27	137.66	139.71	319.28	131.90	148.34	244.49	167.24	279.83
126.56	195.60	216.14	147.11	64.92	161.08	286.41	269.97	251.89	239.97
394.07	137.66	225.59	521.86	352.15	107.66	26.71	169.71	62.05	223.13
664.86	559.67	596.65	19.31	286.82	446.66	475.84	315.58	87.94	211.21
362.84	126.97	348.87	239.97	179.16	216.14	281.89	130.26	254.77	279.01
458.17	113.00	173.82	598.29	412.56	306.95	264.22	302.02	181.62	136.83
669.38	120.81	235.87	454.06	572.40	166.42	304.08	273.26	177.10	165.19
410.91	95.74	316.40	128.62	448.72	293.39	186.56	75.61	102.73	311.06
81.77	94.51	35.75	205.87	363.25	330.38	286.82	254.77	276.96	204.22
157.38	682.53	314.76	334.90	400.64	84.24	182.04	148.34	166.83	84.24
279.83	173.82	314.35	340.24	312.71	154.50	332.43	420.37	120.81	250.25
165.14	355.44	229.29	10.27	189.64	325.44	72.32	340.24	270.38	198.06
657.87	213.26	301.61	254.36	380.51	518.16	152.04	75.61	258.88	55.88
16.03	845.25	137.66	246.55	137.25	179.57	206.28	191.49	270.79	34.11
126.97	121.22	338.59	217.37	539.12	113.82	383.38	352.98	66.98	500.49
192.72	280.65	601.17	216.55	618.01	528.85	370.64	207.51	255.18	190.66
161.49	110.54	114.65	1029.34	667.74	148.75	279.42	97.80	281.07	127.38
41.09	276.13	192.72	214.50	37.39	356.67	240.80	168.89	264.63	470.09
274.90	255.18	247.78	239.56	81.77	298.73	311.47	119.99	223.54	536.65
181.21	826.35	447.90	67.80	288.46	180.80	166.42	312.71	256.41	700.61
210.39	299.15	138.07	185.73	226.82	183.27	225.18	195.18	200.12	378.86
325.44	87.94	818.95	653.76	153.27	267.09	145.87	104.37	197.65	95.33
146.70	78.90	525.56	438.03	64.92	79.72	188.61	56.71	227.65	378.86
250.66	245.32	277.78	89.17	1320.27	229.29	379.27	133.96	93.28	333.25
244.91	356.67	260.93	345.17	412.56	162.31	283.12	195.60	251.48	401.46
215.32	295.86	219.84	57.53	277.37	240.39	107.66	179.98	183.68	135.19
292.57	383.79	150.39	821.01	359.14	186.97	355.85	80.95	364.07	178.75
195.60	368.18	164.78	260.93	96.57	344.76	825.12	439.68	796.76	109.30
280.65	34.93	270.38	326.27	123.27	257.23	218.20	173.82	90.40	136.83

478.30	277.78	88.76	67.39	321.75	122.86	223.95	199.70	142.18	177.10
733.07	247.78	380.10	226.00	169.71	153.27	383.79	107.66	569.53	117.93
131.08	154.50	507.07	335.31	598.29	31.64	594.59	320.10	561.31	224.36
186.56	471.32	136.01	158.61	923.32	39.45	306.13	304.08	145.05	647.60
192.72	74.79	417.49	233.40	375.58	137.25	178.75	116.70	144.64	262.99
159.44	138.48	72.32	302.02	516.11	499.67	182.45	266.27	170.53	242.44
490.63	416.26	338.18	414.61	365.71	322.98	213.26	225.18	485.70	180.80
477.07	137.66	125.74	519.40	161.08	127.79	278.60	253.95	84.65	149.16
379.68	186.56	488.17	388.73	223.54	102.32	173.00	410.50	50.95	153.27
217.78	893.74	241.21	119.17	253.95	245.73	385.44	338.59	30.41	301.61
504.19	109.30	120.40	253.12	306.13	150.39	298.73	317.64	268.33	236.69
119.58	238.33	228.88	205.46	789.78	467.62	588.02	96.15	160.67	120.40
301.20	158.61	198.06	667.32	615.96	198.88	110.54	265.45	318.46	288.05
282.71	198.88	18.49	428.58	110.54	177.10	83.01	121.63	159.44	320.51
14.79	183.27	176.69	195.60	102.73	179.57	235.04	32.46	115.88	73.97
615.14	55.88	382.56	318.05	119.17	196.01	255.59	108.07	110.95	208.33
194.77	805.80	97.80	197.24	170.53	66.16	308.19	117.93	101.91	278.60
210.80	317.23	243.26	407.63	293.39	569.94	277.78	181.21	50.95	246.55
311.47	202.17	24.66	304.08	760.60	108.48	439.27	154.92	108.48	205.87
453.24	87.53	146.29	172.17	168.89	140.12	379.27	150.81	209.57	318.46
164.37	277.37	63.69	315.17	784.44	299.56	319.69	251.48	210.80	558.84
247.37	158.61	101.09	510.36	50.13	195.60	260.11	123.69	189.02	97.39
168.48	46.84	267.51	330.38	181.21	792.65	132.73	122.86	233.81	175.87
109.71	94.92	326.27	32.87	207.92	463.51	27.94	393.25	195.18	451.59
161.08	199.70	231.76	255.18	149.98	211.21	222.30	104.78	62.46	247.78
287.23	149.16	165.19	372.70	426.12	286.82	103.14	301.20	77.25	95.33
188.20	299.97	311.06	189.43	313.94	417.49	110.13	143.00	58.35	216.96
87.53	659.11	149.16	261.75	373.93	380.92	194.77	216.55	30.82	641.44
60.82	235.04	173.82	865.80	486.11	275.72	164.78	225.18	99.85	145.87
113.41	115.06	477.89	584.73	151.63	132.31	259.70	178.75	217.37	702.66
127.38	216.14	193.95	616.37	344.76	216.96	136.42	76.43	136.01	149.57
242.44	283.12	173.41	345.58	270.38	112.18	229.29	185.32	631.99	376.40
239.15	104.37	417.90	186.56	93.28	205.46	324.21	221.48	168.89	128.62
189.02	494.33	168.89	272.85	415.85	253.53	187.38	68.21	186.97	126.56
30.82	638.56	251.89	315.99	243.26	243.67	230.52	161.08	52.60	64.51
311.47	212.85	79.72	482.00	402.29	83.01	123.27	130.67	106.43	176.69
452.01	217.78	242.03	29.59	313.94	174.23	241.21	498.85	100.67	187.79
505.84	873.19	214.91	208.74	145.05	391.60	163.13	123.69	127.79	212.85
387.90	186.56	216.14	301.61	76.84	126.15	227.24	148.34	94.92	195.18
178.75	139.71	290.93	186.14	284.35	110.95	316.40	113.00	128.62	589.66
470.50	96.98	142.18	39.04	257.64	162.72	27.53	123.69	68.21	164.37
271.61	255.18	237.51	232.99	291.34	588.84	55.06	227.65	313.12	475.43
48.08	699.38	272.03	97.80	147.11	170.53	422.42	294.21	134.37	516.93
190.25	101.50	159.85	78.07	252.71	168.89	203.40	205.46	207.51	149.16
461.05	251.07	432.69	291.34	479.95	143.82	373.93	146.29	258.05	66.98
436.39	202.99	357.08	484.47	529.67	151.22	522.27	260.11	237.51	94.10

144.23	190.25	571.58	218.61	57.53	87.94	360.78	94.10	334.90	872.37
150.39	917.57	154.09	126.97	205.87	151.22	496.80	202.58	45.20	372.70
50.95	200.94	311.06	229.29	112.18	172.58	197.24	81.77	638.56	765.53
1167.82	474.61	265.86	287.23	313.53	422.01	360.37	332.43	179.98	159.02
282.30	248.60	300.38	146.70	168.89	86.29	535.01	163.13	85.47	669.79
366.12	250.25	144.64	369.41	314.35	269.56	181.21	213.68	158.61	303.67
278.60	268.33	260.93	284.76	214.50	305.72	294.63	126.15	298.73	630.75
262.16	101.09	177.93	257.23	208.33	148.34	415.85	312.30	32.87	663.22
182.45	672.26	820.60	355.03	173.00	361.60	410.50	108.07	62.05	317.64
364.89	60.82	247.37	577.33	181.21	399.82	175.05	355.44	542.41	229.29
475.84	183.68	491.86	334.48	183.27	175.87	52.60	238.33	131.08	221.48
204.64	22.60	292.57	352.98	311.06	91.22	9.86	75.61	215.32	232.58
258.47	239.15	44.38	219.02	825.94	188.61	169.30	98.62	46.84	98.62
401.46	244.91	675.54	495.97	162.72	181.21	138.48	239.56	283.12	365.30
168.48	443.79	371.88	108.07	318.46	70.27	78.90	348.87	102.73	292.16
307.36	33.70	195.60	246.55	343.94	366.12	149.16	286.82	39.45	196.01
329.96	206.69	327.09	719.51	78.49	269.56	255.59	224.36	28.76	221.48
279.01	299.15	66.98	395.30	274.08	114.65	502.14	165.19	83.42	308.19
280.65	126.56	283.94	156.97	85.47	184.09	301.61	388.31	45.20	452.01
107.25	230.52	122.45	307.36	263.40	396.94	282.30	157.38	260.52	354.62
329.14	231.35	200.53	244.49	272.03	111.77	166.42	113.41	58.35	320.51
72.32	53.01	317.64	562.95		111.36	218.61	361.19	49.31	445.43
108.89	103.55	124.92	262.99		390.78	178.34	185.32	88.35	558.43
198.47	652.12	174.23	214.91		67.39	363.66	186.97	32.46	88.35
588.84	191.90	174.23	291.34		312.71	151.63	79.72	191.49	239.56
471.32	82.18	26.30	179.57		260.11	193.13	149.98	194.36	451.18
327.50	204.22	234.22	487.34		181.21	156.97	221.89	146.29	103.96
274.08	294.63	219.43	516.93		106.84	155.33	83.83	223.95	186.56
152.86	267.51	473.37			418.72	148.75	27.94	48.90	133.55
113.82	315.99	185.73			216.55	243.26	119.58	249.01	135.60
109.30	307.78					250.66	135.19	73.97	355.03
640.20	498.44					55.88	147.93	377.63	37.80
44.38	90.40					218.61	103.96	155.74	177.52
145.87	73.55					329.96	80.95	76.43	277.37
180.39	415.85					175.46	246.55	116.29	
276.55	283.12					378.45	164.37	166.42	
213.68	258.05					248.60	1292.32	214.91	
242.85						946.75	67.80	147.11	
	97.39						39.86	55.06	
273.67							97.39	418.31	
115.88							33.28	304.90	
32.87							122.04	269.97	
177.52							317.23	140.12	
482.41							202.99	213.68	
158.61							49.72	142.18	
211.62							171.35	145.05	

292.16	114.23	266.27
59.17	84.65	207.10
72.73	48.49	353.80
187.38	55.47	322.16
248.60	221.89	449.95
196.83	138.89	69.03
242.44	126.97	273.67
694.44	187.38	67.80
245.32	80.54	666.50
102.32	83.83	89.17
906.48	157.79	95.33
408.45	205.87	373.93
465.16	83.01	141.77
289.69	171.76	187.79
197.65	182.45	192.72
20.14	46.84	440.91
232.17	148.34	168.48
176.69	42.74	886.75
80.13	49.31	
265.86	251.07	
32.46	117.52	
59.58	99.44	
161.49	137.25	
452.83	73.97	
321.34	252.30	
236.69	234.22	
293.39	71.09	
172.58	131.90	
800.05	93.69	
361.60	378.45	
269.15	256.41	
	113.00	
	173.82	
	105.19	
	26.71	
	184.50	
	145.87	
	120.40	
	82.59	
	105.19	
	134.37	
	745.81	
	611.03	
	57.94	
	119.17	
	170.94	

130.67  
94.10  
261.34  
150.39  
75.61  
72.32  
207.10  
365.30  
88.35  
97.80  
165.19  
117.11  
290.11  
119.99  
378.86  
126.15  
146.29  
76.84  
202.99  
198.06  
403.93  
375.16  
120.40  
78.90  
118.34

280.98 256.36 261.67 303.47 303.91 225.23 250.13 193.47 203.19 271.87  
176.22 199.34 154.81 185.79 205.81 133.11 145.55 136.13 151.08 175.66

Group Mean 255.03  
Group StDev 38.19

Males - Group 5 (0mg) 5-  
Day Old Rat Study

95A	96A	97A	98A	100A	101A	309	314	317	321
293.39	94.92	223.95	136.42	156.56	88.38	45.20	823.88	254.36	177.93
153.27	607.74	420.78	493.10	205.05	189.44	705.54	408.45	373.93	172.17
16.44	147.93	119.58	117.11	117.52	253.27	539.94	249.01	127.79	121.22
22.60	712.53	170.53	324.62	146.70	34.37	693.21	920.04	982.08	232.58
542.41	403.93	436.39	157.79	367.77	472.99	238.33	350.10	213.68	252.71
24.66	332.43	494.74	102.73	331.61	6.96	132.31	260.52	189.84	420.78
188.61	348.46	178.75	426.94	161.49	143.21	145.87	344.76	441.32	367.36
339.83	613.08	154.92	230.11	298.32	223.40	482.41	578.98	251.48	329.55
492.28	210.80	291.75	214.91	219.43	38.05	391.60	330.38	182.45	70.68
408.86	525.97	209.16	780.33	166.01	76.92	274.90	163.96	126.15	358.32
521.86	92.05	350.92	62.87	233.40	308.51	503.37	223.54	324.62	181.21
445.43	308.60	433.51	118.34	143.00	81.42	405.16	347.63	139.71	197.65
477.07	795.53	307.36	334.48	163.13	243.86	213.68	302.84	1004.27	433.93
303.67	477.07	47.26	201.76	91.63	391.98	77.25	641.44	537.48	168.06
358.32	285.17	209.16	280.24	350.92	82.65	304.49	364.07	171.76	185.73
419.13	899.90	64.92	261.75	539.94	332.65	195.18	223.54	479.13	140.12
440.09	1011.67	217.37	199.29	699.38	171.85	62.46	149.98	293.39	188.61
399.41	285.17	373.93	291.75	233.40	74.06	317.23	166.01	77.66	161.08
126.97	511.59	219.02	248.19	392.01	143.62	592.95	289.28	329.96	147.52
377.63	571.58	133.96	274.08	327.91	412.03	53.83	183.68	465.16	96.15
81.36	290.52	138.48	381.74	147.52	96.15	297.09	234.22	512.41	144.23
735.13	730.61	215.73	242.03	522.68	516.77	227.24	164.78	79.72	310.24
131.08	465.16	120.81	151.63	362.84	196.40	38.63	410.09	201.76	87.94
636.10	221.07	262.99	464.33	258.47	218.49	580.62	329.14	99.03	392.83
110.54	170.53	94.92	230.52	93.28	546.64	258.05	271.61	174.23	117.52
369.00	466.80	100.67	76.02	131.49	223.40	136.83	454.06	168.89	707.59
28.76	243.67	477.48	110.13	276.13	646.89	193.95	200.94	247.37	258.47
625.00	458.99	546.11	359.96	46.02	60.97	226.00	493.51	179.98	358.73
184.91	292.16	309.42	105.19	130.67	91.65	405.57	287.23	36.57	299.97
408.45	1408.20	216.55	166.42	145.87	116.61	57.12	346.40	190.25	362.02
303.25	406.81	106.02	91.22	334.90	121.93	264.22	254.77	202.17	174.23
407.63	827.58	164.78	537.89	297.09	206.63	240.39	385.03	218.61	214.91
130.26	207.51	320.51	254.77	259.70	291.32	233.81	168.06	664.86	311.88
343.94	220.25	283.94	243.67	305.31	135.02	250.25	470.50	257.23	295.86
199.70	110.95	386.26	175.87	294.63	106.79	887.99	230.52	417.49	283.12
660.75	123.27	347.63	339.42	73.14	349.02	145.05	728.14	220.66	310.65
315.99	182.45	116.70	63.69	387.90	251.64	600.76	1134.53	276.13	381.33
436.80	446.66	248.19	370.23	327.50	363.75	422.01	218.61	106.84	248.19
333.25	362.43	385.03	367.36	108.89	176.35	733.89	105.19	219.43	1634.62
340.24	268.74	80.54	80.54	78.07	74.47	192.72	311.88	332.84	598.29
296.27	875.66	285.17	89.99	278.19	39.28	252.30	384.62	521.86	657.05
852.24	127.38	193.95	312.71	325.44	41.33	54.65	258.05	191.49	310.65
755.67	331.61	291.75	342.70	414.20	351.06	81.36	606.10	197.65	396.12

696.91	212.85	456.94	537.06	213.68	384.61	471.32	758.55	395.30	117.52
67.39	282.71	1254.11	359.14	371.47	380.52	235.87	340.65	281.89	357.91
719.10	214.91	578.98	143.00	430.23	1203.35	238.74	594.18	308.19	274.08
257.23	1067.14	485.29	367.77	435.98	203.76	239.56	192.31	166.83	585.14
671.43	285.17	297.50	158.61	306.13	441.90	225.18	417.49	723.62	567.47
562.13	277.37	341.06	225.59	87.94	163.67	155.74	256.41	729.37	280.65
594.18	57.53	212.44	236.28	299.97	229.54	101.09	246.96	476.25	128.62
447.07	2061.56	1243.84	244.49	1323.55	36.42	346.40	1053.58	217.78	267.51
539.94	414.20	202.99	458.17	508.30	781.91	169.71	110.54	510.36	267.09
422.01	45.61	215.32	120.40	147.11	329.38	144.23	296.27	213.68	341.47
137.25	94.10	282.30	112.18	104.37	481.18	96.15	272.03	457.76	118.75
540.35	337.77	696.91	108.07	184.09	202.13	278.60	596.24	296.27	304.90
150.39	698.14	218.20	161.90	113.41	278.64	1065.09	406.39	352.56	149.57
142.18	72.73	313.12	366.12	359.14	446.81	161.90	97.80	241.62	325.03
739.65	206.28	286.82	687.46	112.18	236.09	399.41	667.32	530.49	133.14
560.08	216.96	369.00	413.79	285.59	153.44	199.70	411.33	463.92	191.49
659.93	446.25	89.99	235.87	466.39	436.17	260.93	1.64	273.67	375.58
178.34	161.90	320.51	169.30	293.80	518.82	238.74	116.29	162.31	271.61
937.30	166.42	152.45	701.02	350.92	155.89	99.85	201.35	211.62	142.18
154.50	83.42	426.12	201.35	72.73	166.94	175.46	93.69	140.12	201.35
421.60	445.84	126.56	352.56	168.48	281.10	134.78	197.65	274.08	354.21
375.99	113.41	279.42	385.03	274.49	305.65	75.20	425.71	199.70	354.62
132.73	50.54	131.49	500.08	591.31	182.49	115.06	392.42	411.74	537.06
828.81	319.28	279.83	318.87	277.78	222.18	76.84	292.98	530.90	154.50
369.41	506.25	362.43	205.46	608.15	314.65	487.76	413.79	185.73	689.92
341.06	239.15	212.85	94.10	617.19	158.35	121.22	471.32	112.59	832.51
634.04	115.06	412.15	643.49	239.56	103.93	75.20	462.69	87.94	461.46
196.42	150.81	305.72	212.85	365.30	202.95	319.69	659.52	173.41	309.01
322.57	110.13	170.12	180.39	84.24	103.11	71.50	585.14	341.88	469.26
109.30	431.05	268.33	210.39	434.75	132.57	188.20	3.29	662.80	465.16
212.44	213.68	262.57	366.95	188.20	124.39	451.18	81.36	411.33	258.05
281.48	179.16	204.64	153.27	92.87	180.03	117.52	103.96	226.00	413.79
452.01	127.79	141.77	136.42	182.04	354.75	145.87	544.05	214.91	161.49
336.54	187.79	304.49	139.30	204.22	135.84	379.27	55.47	923.32	175.87
279.01	396.12	184.91	238.74	446.66	174.71	178.34	672.26	93.28	162.72
354.21	141.35	379.27	123.69	234.63	171.03	626.64	347.63	735.54	426.12
191.90	59.58	269.97	867.85	91.63	92.06	406.39	282.30	182.04	278.19
219.02	441.32	203.40	39.45	183.27	109.25	318.05	292.16	144.64	506.66
67.39	755.67	156.97	196.42	286.82	259.82	93.28	508.30	433.10	302.84
512.82	48.08	248.19	172.17	29.18	228.31	338.59	264.22	671.84	266.68
229.29	237.92	491.04	129.03	123.69	186.58	256.41	541.58	120.40	328.32
375.16	469.26	92.46	295.86	216.55	170.62	298.73	620.89	193.13	465.16
105.61	694.86	421.60	302.84	401.05	150.57	115.06	213.26	836.62	405.98
315.58	217.78	138.48	80.13	57.53	82.65	276.96	150.81	371.47	418.31
27.12	206.28	414.61	141.35	649.66	359.25	231.35	874.43	222.30	167.24
420.78	2131.82	1378.21	126.97	166.83	188.62	264.63	615.96	220.25	514.46

327.91	193.95	230.11	456.11	181.62	593.70	205.05	441.73	282.71	304.90
308.19	156.97	333.25	68.21	288.05	874.79	318.87	401.87	254.77	156.56
359.55	205.87	298.73	124.51	313.53	271.28	63.28	540.35	359.55	550.21
325.03	189.02	198.88	78.90	138.07	436.58	126.15	634.45	354.62	366.12
158.20	629.52	545.69	257.23	281.48	741.40	389.96	395.71	859.22	717.87
293.39	380.51	311.47	666.91	203.40	223.81	351.74	311.47	440.50	207.10
75.20	244.91	340.65	294.63	202.58	92.47	118.75	250.66	568.29	349.28
566.24	270.79	230.52	388.31	343.94	326.92	125.33	132.31	322.57	931.95
291.34	239.56	155.74	128.62	194.36	477.90	113.82	646.37	726.50	136.83
179.57	284.35	548.98	299.56	229.70	244.27	44.38	198.88	323.39	367.36
281.07	351.33	56.30	414.20	255.18	204.99	202.99	615.14	443.38	320.10
272.44	475.02	227.65	111.77	177.52	457.85	270.79	410.91	163.54	345.99
264.63	414.20	349.28	197.65	656.23	159.17	47.26	490.22	265.04	431.46
291.75	161.08	91.22	401.46	85.06	789.28	42.74	404.75	278.19	513.23
498.85	202.58	324.62	379.27	121.22	168.17	83.83	580.21	759.37	387.90
295.45	372.29	92.87	138.07	463.92	449.67	33.70	106.84	349.28	168.89
97.80	431.05	262.99	160.67	273.26	361.29	428.58	323.39	205.87	206.28
562.95	251.89	409.68	207.92	68.21	131.34	156.56	382.97	309.83	152.45
643.90	97.80	148.75	236.28	239.56	1060.96	154.92	373.11	241.62	505.42
500.49	289.28	348.87	512.82	488.99	517.18	55.47	493.51	78.90	548.98
358.32	157.38	251.89	524.74	251.07	922.25	353.80	587.20	576.10	311.06
167.65	526.79	445.02	1171.52	151.63	312.60	122.04	482.82	518.57	198.06
343.52	219.84	258.88	188.20	227.65	258.18	63.69	269.97	165.60	341.47
368.18	317.64	288.05	106.43	139.71	1083.87	381.33	684.99	34.52	233.40
1010.44	242.85	234.22	238.33	114.65	227.09	210.39	486.93	234.22	194.77
698.14	127.38	142.18	122.04	66.28	315.58	516.52	125.33	433.51	
375.99	330.38	327.50	165.19	102.70	95.74	342.29	341.06	179.98	
202.17	374.34	48.90	241.62	731.18	80.13	51.78	238.74	394.07	
380.92	463.51	265.45	409.68	561.37	105.19	225.18	313.53	231.76	
505.01	475.02	399.41	291.75	250.82	349.69	423.24	59.99	219.84	
104.37	119.17	51.36	189.02	156.71	101.50	642.67	235.45	476.25	
175.46	166.42	173.41	186.14	234.45	159.44	207.10	138.07	62.87	
1163.30	300.38	20.96	587.20	829.37	190.25	114.65	147.93	136.83	
	191.49	137.25	474.20		166.83	744.17	1106.59	407.63	
	349.28	212.03	442.97			194.77	401.87	224.77	
	579.80	204.64	280.24			981.67	733.89	235.04	
	259.70	394.48	277.37			69.03	277.37	368.59	
	1309.58	182.45	108.07			345.17	92.46	311.06	
		79.31	516.93			785.26	153.27	108.48	
		135.60	356.67			415.85	652.12	539.12	
		532.13	269.15			310.65	322.16	704.31	
		137.66	27.53			558.84	715.40	135.60	
		376.40	209.57			600.35	110.13	197.24	
		152.86	265.04			636.92	714.17	219.43	
		699.79	58.76				195.18	148.34	
		444.20	163.96				377.63	43.15	

185.32	205.05	551.86	354.21						
89.58	305.72	175.87							
86.29	78.07								
205.46	52.60								
301.20	757.31								
225.18	343.11								
505.84	286.82								
343.52	315.58								
223.95	332.43								
98.62	398.18								
221.89	186.14								
657.05	9.04								
231.35	578.98								
304.90	202.99								
184.09	156.15								
85.88	92.46								
72.73	206.28								
36.57	201.76								
176.28	32.05								
223.95	417.49								
110.95	559.25								
178.75	243.26								
355.03	18.90								
541.17	65.34								
247.78	45.20								
80.95	206.69								
33.70	160.26								
	31.64								
	129.44								
	218.61								
	323.39								
	2.88								
	93.28								
	361.19								
	14.38								
	134.78								
	210.39								
361.14	375.25	307.62	261.20	257.78	291.14	249.21	389.38	336.60	320.74
210.45	331.92	220.42	179.07	174.17	232.78	183.52	220.96	220.58	199.22

**Group Mean** 315.00  
**Group StDev** 50.45

TAB 2c

## Female - 10 mg/kg PND-90-92 Study

202B1	203B1	204B1	205B1	206B1	207B	552	553	554	5
336.54	457.35	463.92	621.71	419.13	1567.23	349.22	1207.08	680.54	2927.
545.28	1317.39	1404.92	5065.75	860.04	5381.33	1795.21	559.42	119.04	1213.
3021.86	698.14	632.81	219.84	1337.11	947.16	706.76	1537.98	141.10	935.
562.54	656.64	258.47	1851.17	773.75	678.01	3784.39	328.82	2126.95	2943.
1911.16	1688.86	1181.38	2512.74	775.39	1173.98	276.80	509.05	1331.53	285.
1111.11	257.64	389.55	99.03	1328.90	2671.35	330.49	263.89	2685.12	2422.
3253.21	2121.55	1659.68	341.88	1893.08	1269.72	273.88	375.44	219.36	4832.
1941.98	1779.26	349.28	1307.94	3406.48	5324.21	2459.94	1097.19	4313.84	2441.
225.18	1268.49	242.03	785.26	2992.28	3306.21	811.24	1177.52	3132.99	1043.
426.94	2139.22	658.28	2581.77	3603.30	1668.72	558.17	979.40	1424.35	1718.
590.48	5336.54	45.61	597.88	5635.27	8394.97	1147.56	495.32	304.27	2390.
1338.35	257.64	209.16	198.06	79.31	1148.50	96.15	518.63	3492.20	1224.
1192.06	712.11	384.62	1727.48	261.75	1615.30	3388.14	1200.83	4574.82	2560.
336.54	3589.74	1192.47	540.76	1778.02	703.07	1129.66	576.90	4876.17	477.
556.79	897.03	402.70	3654.26	2472.06	557.20	675.13	1152.13	3191.26	1816.
2429.32	622.12	811.97	1683.93	1291.50	950.44	1206.24	763.37	1204.58	456.
428.99	451.18	1656.39	14333.09	1214.66	4419.38	805.00	547.76	724.25	185.
3353.47	974.69	375.58	654.18	3851.91	2910.91	2334.24	537.77	669.30	2405.
1452.99	1238.08	53.01	814.02	1323.96	1036.33	2916.13	303.85	331.32	1575.
420.78	2278.11	343.11	1752.55	850.18	2179.08	4890.74	574.40	554.01	701.
562.54	421.19	175.05	129.85	897.85	2035.26	2450.78	536.52	890.32	1868.
826.35	2029.92	140.94	91.22	2122.37	1021.12	3669.10	1490.12	1214.57	1984.
852.24	1792.00	110.54	755.26	1498.60	575.69	5464.31	704.68	350.88	1875.
1593.11	606.10	69.03	2103.88	2268.66	2276.87	805.83	940.27	1436.84	604.
57.53	1005.51	512.82	1388.48	5373.93	3971.48	732.57	592.72	370.03	1918.
820.60	2481.10	586.79	947.16	450.77	673.49	328.41	2255.15	1336.94	694.
201.76	1761.18	2142.51	875.25	2195.92	3954.64	843.29	1431.43	1210.41	2097.
665.68	234.63	788.13	2036.49	1860.21	81.36	292.20	430.39	2279.71	1279.
210.80	2578.49	168.06	915.93	348.87	594.59	2251.82	469.10	944.85	968.
624.59	994.00	798.41	393.66	588.43	3433.60	2103.64	202.71	4955.26	1503.
4097.63	594.59	192.31	93.28	2345.91	3196.09	744.23	671.38	3384.81	737.
940.17	1079.06	2696.42	181.62	639.38	4799.89	7027.26	1168.78	1729.45	1515.
1427.52	1958.83	242.03	1452.17	1537.64	205.87	1461.39	5602.50	2447.45	1326.
782.38	3399.08	714.17	464.74	2230.85	3468.94	4511.55	2688.45	3971.28	1557.
695.27	209.57	2205.38	2700.53	281.07	1971.98	437.05	259.31	2156.09	524.
3442.64	522.27	183.27	355.85	2488.49	5631.16	587.72	3258.27	1530.07	1504.
2160.59	133.14	46.43	601.58	2159.76	2634.37	1919.67	1405.20	2051.61	721.
310.24	5927.43	1560.24	3712.20	107.25	1025.64	46.20	2066.60	1603.75	1147.
84.24	1738.99	115.47	612.67	928.67	1794.05	565.66	392.09	1522.58	1281.
1659.68	9592.37	648.83	2939.27	780.33	1215.07	276.38	7776.90	914.46	4518.

738.82	1815.42	675.95	590.07	156.56	141.77	875.34	783.77	380.44	3909.
767.18	1274.24	175.05	1228.22	2091.14	6104.13	2867.43	225.18	1024.77	1322.
1661.33	3721.65	1124.67	461.87	1028.93	4446.09	548.60	7704.48	1545.47	454.
322.16	219.84	509.94	89.58	243.26		549.84	1535.48	1557.54	1774.
1106.18	3121.71	341.47	4250.90	455.29		1575.03	1447.66		348.
701.84	4319.53	1711.05	864.56	1842.95		202.71	544.85		1276.
311.06		56.30	1437.79	1958.42		425.81	980.23		2655.
851.82		208.33	586.79	3145.55		265.97	1433.92		3366.
161.08		148.34	71.09	3490.71		523.21	1504.27		3488.
1242.19		794.30	2472.47	2230.85		632.67	2436.21		237.
1161.65		26.30	1650.23			952.34	1585.43		4273.
68.62		24.24	2022.52			1250.36	885.74		173.
207.51		495.97	2719.84			137.36	2255.15		3966.
1313.28		2042.24	1042.49			323.83	12733.82		
3422.91		432.69	1553.25			928.62	654.32		
1602.15		1423.82	1268.08			913.63	1685.74		
1005.51		113.82					2349.64		
522.27		1676.53					1632.05		
1107.00		666.09					1537.98		
1108.65		284.35					651.82		
708.42		70.27					3217.48		
403.52		1950.61					1010.20		
166.42		363.25					1048.91		
2358.24		443.79					2769.62		
		562.95					782.52		
		2117.44							
		240.39							
		161.90							
		1821.17							
1101.11	1788.56	688.04	1542.93	1677.93	2398.98	1418.34	1576.09	1747.88	1725.
950.26	1788.63	671.07	2073.84	1276.15	1907.43	1492.99	2028.51	1344.53	1179.

Mean 1566.  
St Dev 450.

Female - 3 mg/kg PND-90-92 Study

196B1	197B1	198B1	199B1	200B1	201B1	548	549	550	551
2421.93	1434.09	1848.29	201.35	142.18	279.42	5952.13	3037.25	1276.71	254.32
1729.54	1242.19	1262.33	1910.75	177.52	1976.91	4211.86	3419.36	930.31	552.76
981.67	804.98	514.05	813.20	1333.83	1740.22	3859.73	1376.90	255.18	666.81
643.90	2414.53	940.99	1638.72	184.09	102.73	2324.25	1891.36	115.06	604.37
685.82	501.32	4395.96	1075.36	605.28	3386.34	716.34	9592.09	428.99	2174.40
393.66	1752.96	1769.40	638.15	91.63	708.83	1600.00	6768.78	2711.21	675.55
1379.85	2232.50	765.94	845.66	510.36	858.40	6329.66	1950.05	848.13	304.27
60.82	1487.51	396.53	2491.78	315.17	570.76	1662.02	7942.56	445.43	551.09
209.16	1411.90	3062.13	4867.69	82.59	1020.30	1044.75	1467.64	45.61	158.59
443.38	641.44	50.95	462.69	1509.70	451.59	212.28	645.58	324.62	348.39
1762.82	46.84	546.11	509.53	49.72	1172.75	4671.80	693.03	27.53	879.08
394.48	599.52	1054.41	629.52	1523.26	203.40	1677.84	2606.87	620.48	464.10
440.09	2179.08	826.76	3540.43	881.41	307.36	873.26	3406.04	49.72	1065.14
249.84	1270.55	823.47	3418.80	622.54	412.97	828.30	547.35	82.59	238.50
776.22	2634.78	796.76	897.03	115.88	745.81	646.41	2243.91	929.90	466.18
1185.49	1719.26	1385.60	3474.28	81.36	1191.65	2259.31	312.18	1968.69	551.51
82.59	3437.29	2099.77	805.39	487.34	2132.64	387.51	903.23	653.35	401.25
631.16	1750.49	164.78	2894.89	1179.32	569.94	3315.30	1792.30	780.74	697.61
431.87	452.01	1317.39	210.39	201.35	117.93	2718.00	619.77	5228.88	712.59
49.31	85.47	297.91	442.97	275.31	3705.62	1541.73	2773.78	1269.31	489.07
969.35	226.41	885.93	857.58	427.76	597.47	3271.18	2008.33	1093.44	443.29
2353.30	183.27	378.86	4865.63	1214.25	699.38	76.59	1504.68	520.22	332.15
717.87	755.67	1946.91	2193.46	4857.00	539.94	1545.89	86.99	1161.24	148.18
700.20	1649.82	465.16	3079.39	1281.64	925.79	668.47	549.01	1454.22	710.09
558.84	1169.46	2850.92	890.86	78.07	42.32	4661.81	1981.69	225.18	850.78
440.91	1400.81	2005.67	2456.03	265.04	3852.73	1249.12	905.31	162.31	951.93
310.65	2066.49	433.93	4008.88	437.62	163.96	4511.13	411.24	301.61	785.02
98.21	79.31	54.24	901.96	3269.64	112.18	936.52	429.14	846.48	367.53
343.52	156.97	1313.69	1789.94	2231.67	195.60	743.81	1524.66	714.58	398.75
676.36	861.28	729.37	3971.89	595.00	660.34	9336.94	544.02	215.73	74.09
155.74	84.65	957.43	6017.83	350.10	295.86	705.93	2615.61	1020.30	740.48
1773.09	500.08	566.24	2386.59	2148.67	1158.78	3184.60	1648.70	441.73	398.34
718.28	126.56	598.70	837.85	354.62	751.97	2960.25	2488.66	30.41	969.82
3281.15	1358.89	660.34	3153.35	1209.73	736.36	2273.47	1261.60	484.47	2076.17
460.63	1345.74	664.04	1976.50	897.03	3141.03	954.42	1542.56	439.27	529.45
1380.26	1171.93	1636.26	1218.36	74.38	2558.76	1304.47	1768.16	166.42	275.13
320.92	2765.45	1851.99	868.26	92.87	870.73	2361.29	494.07	2208.25	1919.67
64.51	451.59	480.77	3487.84	596.24	1039.20	4993.13	1983.35	449.54	1953.38
556.38	259.70	255.18	1300.54	205.05	628.29	371.28	3001.46	776.22	126.54
1945.68	1947.32	626.64	665.27	387.08	1436.56	743.39	1675.34	227.24	64.10
223.13	136.42	514.46	303.25	1390.12	3183.76		1211.24	842.78	1226.22
2944.61	313.53	1598.04	1473.54	1849.93	97.80		2485.74	226.00	279.29

274.49	475.02	90.40	2126.48	1393.82	191.90		2075.75	137.66	482.83
807.04	1037.56	2599.03	2030.33	1513.81	562.95		1107.18	1391.77	608.95
1806.38	576.51	1091.39	2153.19	1111.52	1549.97		3709.89	241.62	516.55
637.74	436.80	3150.07	4009.29	1386.01	2646.70		953.59	446.66	2273.05
172.17	1303.01	821.83	2330.29	261.75			487.76	556.09	
127.79	1619.00	376.81	1370.40	998.52			337.77	139.85	
1209.32	836.21	801.69	1669.54	820.18			396.12	2440.79	
829.2	2727.65	4092.70	3159.93	210.80			33.28	247.24	
1995.81	388.31	3763.97	1909.93	757.31			82.18	540.27	
1227.40	3324.70			2309.75			1443.13	300.52	
363.25	420.78			936.88			191.49	505.31	
923.32	769.64			522.27			562.54	1371.07	
697.73	2488.91			212.85			612.67	138.19	
830.05	631.58			1430.39			329.14	587.72	
1227.81	916.75						704.31	789.18	
	301.20						50.13	385.85	
	856.76						648.01	228.10	
	172.58						173.00	1162.12	
	151.63						191.08	218.94	
	1192.88						1438.20	293.86	
	177.93						613.49	170.66	
	364.07						53.83	1002.71	
	69.44						933.19	114.46	
	333.66						2226.33	711.34	
							244.49		
							290.52		

860.99	1040.65	1227.10	1984.96	865.16	1093.39	2342.15	2042.56	695.01	661.54
741.46	862.89	1052.68	1380.26	881.91	1044.51	2011.32	1880.88	801.34	555.30

Mean	1281.35
St Dev	612.27

Female - 1 mg/kg PND-90-92 Study

190B1	191B1	192B1	193B1	194B1	195B1	544	545	546	5
1302.19	814.84	1333.83	2333.17	786.08	1642.42	1818.52	57.44	275.13	162.
1043.31	3039.53	1424.64	1226.99	310.65	4887.82	3786.06	288.03	675.13	236.
2427.68	5985.78	2637.66	143.41	108.07	4081.20	2673.47	357.96	146.93	692.
1444.77	6091.80	1590.24	430.64	2979.95	2689.84	8668.47	1093.86	209.37	83.
289.69	1255.34	2841.06	1034.68	501.73	4408.28	8439.13	695.94	1285.74	1918.
5322.16	744.58	3112.67	3560.98	1313.28	3408.94	247.24	197.29	879.50	655.
214.50	419.54	1134.12	741.29	3119.25	2439.19	3597.50	228.51	1472.63	1060.
911.41	1459.98	880.59	864.97	1874.18	4199.95	355.46	241.83	2420.40	1371.
1397.52	2882.97	2932.28	1127.14	356.67	1760.36	4245.99	1174.61	2055.78	1571.
2057.86	2345.09	1103.72	1498.19	1975.67	927.84	1767.74	214.36	43.29	426.
2003.62	281.07	1106.59	376.40	767.18	3392.51	1242.87	158.17	1103.02	870.
1552.84	1327.25	2158.53	501.73	1161.24	13174.72	777.11	783.77	159.83	584.
715.81	48.49	2396.86	1429.57	1478.88	1107.00	1064.72	184.39	449.95	315.
1341.63	1788.30	1499.43	1411.90	263.40	1189.19	2086.99	580.23	919.46	1343.
2586.29	4183.10	1161.65	69.44	3833.83	5412.56	5400.63	949.01	376.28	1494.
433.51	154.50	1730.36	2762.57	1457.92	7541.91	228.51	757.96	1914.26	1114.
1059.34	1261.51	2315.91	72.32	1080.29	11199.05	166.91	926.12	1458.90	1153.
2988.99	1649.00	989.07	844.84	219.84	3728.22	340.48	1206.66	335.07	940.
1498.60	3142.26	712.53	1226.99	1815.01	903.60	166.08	1530.91	473.67	205.
990.30	957.02	1251.23	588.43	118.34	3046.10	82.00	983.14	420.40	101.
855.52	2508.22	3224.03	9065.99	262.16	3806.71	5273.26	972.74	479.50	1759.
5038.22	313.94	507.89	2321.66	122.45	238.33	378.77	141.10	1604.58	415.
3350.59	3852.73	2269.07	419.95	1769.40	168.06	57.02	1272.84	454.53	971.
491.45	1698.31	1121.38	324.21	652.12	468.44	142.77	344.23	366.70	195.
2105.11	205.05	897.03	2282.63	1235.62	3185.82	143.60	737.57	640.17	4677.
461.87	4566.08	1194.53	291.75	84.24	161.08	2207.70	198.96	889.91	9478.
2159.76	6204.39	1333.83	1245.89	1554.90	624.18	108.64	157.34	1002.71	1670.
2083.33	1174.39	5048.49	244.91	1797.34	1035.09	910.30	824.56	2372.53	1137.
68.62	1966.22	5812.79	317.64	1215.07	526.38	182.31	547.76	772.11	1010.
399.00	107.25	2948.31	1413.54	505.01	3867.52	178.56	362.12	119.46	9483.
1433.27	2925.30	756.49	1363.41	649.66	1120.15	368.37	3120.08	4802.91	114.
426.94	2127.71	5698.96	2428.91	6365.88	4149.41	275.13	280.54	919.04	3503.
2585.47	1026.46	2698.88	179.98	530.49	3998.19	2102.81	1724.04	1039.33	1478.
1855.69	1010.85	3043.64	1117.69	246.55	7214.00	2446.62	431.22	311.34	1710.
251.48	2566.16	1123.44	385.44	87.11		2274.71	374.19	1635.80	1693.
405.98	6434.91	6140.29	1372.45	1190.42		695.53	1354.84	234.76	5904.
1162.89	3758.22	2943.38	5378.04	1736.11		1801.04	1207.91	658.48	660.
233.40	10158.20	9420.20	257.23	1221.24		1379.81	1139.65	2816.23	236.
649.66	7589.99	768.82	1195.76	446.66		1531.32	450.78	1366.08	1175.
1978.55	1464.50	3725.35	398.18	338.18			1389.39	665.97	1684.
550.21	1995.40	2738.33	2271.53	796.76			592.72	411.66	690.
957.43	879.36	8715.48	1699.54	81.36			690.95	3010.20	497.
10639.79	428.99	1572.98		184.50			979.81	841.21	258.

2342.62	3447.98		1571.75		5222.06	260.98	1076.		
3134.86			98.21		1180.44	523.62	386.		
3203.49			83.42		939.02	83.25	406.		
2104.29			721.98		578.98	104.48	741.		
3924.64			1628.86		2626.43	213.53	250.		
2659.02			3902.45		1683.66	115.30	232.		
			837.44		217.27	103.64			
			879.77		190.64	3218.73			
			2292.08		113.22	56.61			
			793.89		820.40	1473.05			
					275.13	2138.19			
					201.04	1454.32			
					1104.27	3963.37			
					588.14	647.24			
					1230.39	636.00			
					267.22	1839.33			
					106.97	895.32			
					68.68	4106.56			
					82.00	349.22			
					343.81	565.25			
					2381.27	1865.14			
					790.84	41.62			
					243.50	545.68			
					73.67	133.20			
					96.98	959.83			
					445.79	788.76			
					781.27				
					194.38				
					624.77				
					359.21				
					139.02				
					593.97				
1818.27	2460.06	2512.01	1386.24	1158.58	3285.41	1784.98	752.93	1037.28	1424.
1766.44	2253.05	2033.27	1609.55	1178.87	2982.61	2150.59	797.06	1034.79	2007.

Mean 1762.  
St Dev 784.

Female - 0.1 mg/kg PND-90-92

Study

184B1	185B1	186B1	187B1	188B1	189B1	540	541	542	54
885.93	1353.55	2926.53	2064.43	137.25	1729.95	1729.13	1077.63	429.55	2118.6
295.86	1228.63	2074.70	2478.22	332.84	1955.95	243.26	3062.23	3700.73	1259.9
103.96	622.54	3699.87	29.18	39.45	331.20	64.51	5608.33	801.25	657.2
989.48	85.88	10787.31	1187.95	88.35	459.40	1238.91	774.19	538.19	1234.1
78.49	129.44	4259.94	46.43	184.50	644.72	2794.63	5672.84	156.92	2520.2
341.88	6660.50	1368.75	8547.42	78.90	164.37	4718.11	3827.26	1632.05	1006.8
1107.82	833.74	7941.32	1713.92	318.05	151.22	512.00	1338.19	128.20	576.0
795.12	1094.68	288.87	2467.54	1304.24	50.54	198.47	7858.06	102.39	1334.0
738.00	434.34	1795.28	2947.90	59.17	672.67	260.52	1435.17	627.26	1224.9
278.60	30.00	460.22	1743.92	721.15	247.78	2490.96	3120.08	2786.26	914.0
368.18	375.16	422.42	507.07	477.07	1735.70	4309.25	4020.40	414.57	3667.4
640.62	673.49	24.66	389.96	2919.13	179.98	2101.82	1152.97	1332.78	156.5
4700.85	1977.73	21.78	4868.10	1835.55	700.61	178.34	481.58	342.56	479.9
765.12	419.95	415.02	1480.93	222.72	1107.00	7799.15	7105.52	544.02	1541.3
147.93	509.53	412.97	214.09	599.11	144.23	6230.28	89.07	4734.65	320.0
553.09	3151.30	2831.61	92.05	1113.58	71.91	615.55	8252.24	841.62	3755.6
29.59	382.15	71.09	740.88	273.67	170.53	2886.67	3469.72	2036.63	1877.2
329.55	136.01	53.42	708.83	919.21	74.38	6039.61	721.75	471.59	1492.6
2156.89	156.97	1689.27	385.03	2141.68	854.29	7570.68	1805.62	154.42	1780.2
173.41	1037.97	5655.41	971.40	100.67	40.68	149.57	3154.63	2911.55	269.3
677.19	396.12	1541.34	2680.39	366.95	81.77	4245.97	862.44	914.05	1291.9
1913.22	1814.60	1301.78	255.59	96.57	83.01	153.68	464.10	1432.67	1785.2
89.99	237.10	484.06	1754.19	2561.64	89.99	1117.69	617.27	1052.24	1701.5
827.58	972.22	100.67	261.34	361.60	131.49	3046.52	3100.52	3408.53	619.7
2143.33	2268.66	3553.17	1391.35	615.14	141.77	295.45	1584.18	1680.33	396.2
270.79	1053.58	348.04	1086.87	76.84	83.42	1372.45	2491.57	1611.66	1054.3
315.58	793.48	1481.34	4074.21	865.80	997.70	698.14	1346.93	303.85	475.7
122.04	982.91	2218.11	257.23	459.81	1477.24	4047.91	1894.28	3369.41	1059.7
622.54	1487.92	786.49	30.82	1059.34	345.58	405.98	3102.60	364.20	3207.4
152.04	2457.68	1396.70	278.19	173.00	3602.07	3183.76	735.07	944.85	798.7
1280.82	1190.01	5706.36	3010.36	97.39	1206.44	4835.22	420.40	905.31	473.6
248.60	120.40	105.19	5080.13	1102.07	587.20	4790.02	1563.37	625.18	444.9
4374.59	1251.23	1245.48	185.73	505.84	431.87	3571.66	5502.60	2939.44	503.6
38.63	1786.24	156.56	2293.31	100.26	2155.24	370.64	1174.61	7747.35	248.9
470.50	65.34	489.81	1000.16	103.55	2158.12	3075.28	1180.44	116.96	501.5
3320.60	332.02	885.11	1213.84	692.39	5992.77	1004.68	2164.41	1190.43	1510.0
917.16	726.50	4927.27	3116.78	717.05	4115.30	6345.33	3615.82	1252.45	51.6
294.21	253.12	3952.58	3843.28	29.59	148.34			3220.40	812.4
740.88	1424.64	69.44	1192.88	2219.76	1321.91			1505.52	340.0
1256.16	930.72		2370.97	64.51	54.24			1304.47	176.9
4009.70	2223.46		122.45	899.90	325.03			1921.75	964.8
397.35	513.64		4751.81	1194.53	120.81			2393.76	1414.7

178.34	1047.01	3588.92	57.94	137.66	708.43	660.5
198.47	334.07	371.88	824.29	483.65	511.55	352.5
336.95	696.09	4134.21	395.30	1927.19	2458.27	1619.9
1095.50	364.07	831.28	206.28	230.93	1300.31	1399.7
1620.64	680.06	2806.95	1429.16	1526.55	3830.18	775.4
943.05	3208.42	1169.87	255.59	1371.22	590.64	4160.2
536.65	188.20	2350.02	518.57	194.77	252.65	937.7
727.32	156.15	6195.35	98.21	1137.41	1945.47	1102.6
258.05	5289.28	594.59	5432.69	521.45	2319.67	1267.8
1035.50	673.90	2735.87	204.64	43.15	1595.42	862.0
69.86	141.77	6374.10		1112.34	4946.51	479.0
361.60	845.66	4010.52		852.24	5694.90	310.0
1208.09	472.96	3144.72		411.74		1260.3
364.07	291.75	5096.98		446.66		1672.8
262.16	2257.15	2457.27		113.41		1976.6
171.35	860.87	4222.96		598.29		1153.3
1851.99	144.64	1205.21		162.31		70.3
3415.52	259.70	329.55		908.94		641.8
	909.76	519.40				963.1
	379.27	4478.14				614.3
	758.55					325.4
	1734.06					59.1
	128.21					
	650.07					
	374.75					
	851.00					

909.98	1004.01	1998.72	2104.11	724.09	821.97	2559.24	2590.49	1686.04	1104.4
1075.87	1141.11	2400.31	1885.18	953.29	1080.63	2307.94	2155.26	1583.31	882.1

Mean	1550.3
St Dev	726.2

Female - Controls PND-90-92 Study										
178B1	179B1	180B1	181B1	182B1	183B1	536	537	538	53	
1366.29	529.67	322.16	186.14	216.96	1015.78	288.45	1528.41	3667.43	847.8	
2902.70	1785.83	511.59	2099.77	880.18	240.80	584.39	1643.70	792.51	1018.5	
973.04	1311.64	4739.07	2098.95	566.65	991.54	178.98	186.89	700.94	421.6	
7482.74	286.82	582.27	1396.70	1615.30	184.50	865.77	480.75	1760.25	835.3	
4585.39	1732.82	2425.21	106.84	254.77	549.80	151.93	803.33	467.43	593.5	
3547.83	1098.37	890.86	874.01	469.68	304.49	140.69	5654.94	1031.01	1589.1	
4819.20	913.46	478.72	198.88	53.42	3106.10	1287.41	342.14	250.57	1773.5	
5715.81	145.87	969.76	2267.83	101.09	427.76	173.15	1584.18	2042.04	770.4	
1886.10	1246.30	494.33	2064.02	635.68	442.55	1580.85	139.44	2029.14	1815.1	
1259.45	166.42	139.30	1842.54	84.24	263.40	357.13	16026.64	277.63	429.1	
738.41	56.71	1484.63	408.45	449.95	199.70	593.55	5547.97	944.02	1286.5	
2152.78	2026.63	844.43	1309.17	69.44	907.71	785.43	1680.33	386.26	2527.7	
1143.98	1110.70	277.78	792.24	747.86	1118.92	1170.03	154.84	554.01	2134.4	
1933.76	421.19	350.10	182.86	144.23	267.92	657.23	774.61	655.98	430.3	
654.59	442.14	139.71	885.93	1203.98	226.41	123.21	334.24	1361.92	1319.0	
596.24	240.80	3484.96	2887.49	164.78	1090.98	569.82	926.95	631.43	916.5	
2912.56	360.78	1132.89	1125.49	1067.14	389.14	502.81	186.47	53.69	974.4	
659.11	1962.53	629.52	2589.58	116.29	2221.81	316.34	389.59	375.03	894.9	
734.71	34.93	1771.45	928.25	438.45	751.15	637.67	308.01	1021.44	393.3	
264.22	1152.20	1048.24	1210.14	81.77	500.90	235.59	541.94	3896.36	590.2	
129.44	1942.39	1373.69	748.27	244.91	899.08	1264.52	737.98	199.38	1257.4	
1563.12	2628.62	627.06	2598.21	128.62	191.08	3550.05	2096.98	633.09	760.8	
3664.53	458.17	2702.17	348.87	883.88	1337.11	422.06	839.13	2647.24	1047.2	
751.97	1090.16	1754.60	128.62	691.16	461.87	1832.67	1254.11	2800.00	779.1	
498.03	133.96	785.26	905.65	596.24	932.77	1546.72	579.81	3143.39	616.4	
2970.91	1934.17	3653.44	1845.41	299.56	165.60	2161.08	4183.56	207.70	929.8	
2002.79	1487.10	268.33	741.70	265.86	1966.63	2936.52	636.42	486.16	2098.2	
1067.55	1845.41	1028.93	143.00	1169.46	616.78	284.29	3847.24	1388.14	2016.6	
5133.14	3483.73	110.95	791.83	485.29	599.52	270.97	5333.20	147.76	1449.7	
64.10	986.60	151.22	806.21	1254.93	911.00	3132.15	1834.34	1445.58	2288.4	
1840.89	817.72	2792.16	1496.14	2162.64	2009.37	3109.26	4939.44	981.48	149.0	
1210.55	4060.65	2235.37	1394.64	886.75	2294.95	1421.85	1874.30	55.36	1109.6	
6386.83	995.64	1234.39	1756.66	1164.12	3031.72	603.54	683.04	2390.01	1792.3	
1553.25	1118.10	572.81	50.95	378.04	889.22	151.93	2721.33	452.03	3388.1	
1522.85	257.23	545.69	1951.84	1376.56	1267.26	832.47	7816.44	407.08	1416.0	
5654.18	1402.45	1607.50	917.57	1343.28	1606.26	1793.55	8155.26	162.75	320.0	
2561.64	274.08	103.14	305.31	1284.52	892.09	505.72	4818.73	1654.53	2734.6	
5635.68	27.12	2081.69	2237.43	365.71	186.97	454.94		222.27	1420.6	
485.70	396.12	1932.53	2069.36	193.95	2348.37	67.43		529.03	1935.0	
996.88	1206.44	505.84	935.65	724.44	1109.88	1391.47		264.31	6100.7	
315.17	1536.82	1214.66	2102.24	2747.78	1797.75	2297.61		1825.18	3353.1	
2897.35	214.09	98.62	1376.56	2518.90	56.71	1617.90		1003.95	1041.0	
5027.12	748.69	540.35	328.73	294.21	1259.04	699.27		1879.29	3030.5	

1469.43	449.13	908.12	2645.46	3116.37	1338.76	2067.01		1012.70	2646.4
2060.73	136.83	1486.28	782.38	2730.52	689.51	65.77		1405.62	2119.8
1966.22	1045.78	1917.32	2116.62	2051.28	1409.44	165.25		1090.53	1353.5
952.91	354.62	559.67	3209.24	959.07	191.90	1283.66		471.59	525.2
269.56	3817.80	525.97	527.61	1155.49	568.71	241.00		1861.81	1359.8
372.70	304.90	294.63	1771.45	1213.84	1694.20	1684.91		228.10	1165.4
2038.96	477.07	1275.07	809.09	1316.16	1230.28	361.29		766.29	1496.7
	1916.91	525.56	4064.76	1683.10	1691.73	235.59		196.88	724.2
	132.73	1424.23	2270.30	798.82	839.91	1352.34		424.97	2246.8
	442.97		2058.27	2473.29	1108.65	514.88		452.86	886.1
	1598.46		1280.82	1229.45	1434.09	851.20		855.36	1162.9
	1160.01		295.04	80.54	694.03	1765.25			710.0
	1056.87		558.84	56.30	116.70	792.92			1636.6
	304.08		894.15	1626.40	1349.03	405.41			1982.1
	595.00			4840.15	2009.78	394.17			2044.9
	2671.35			75.20	2142.92	1801.46			1940.4
	2417.41			129.03	675.54	2721.33			1193.3
	4247.62			804.57	243.67	790.43			4868.2
	532.96			1423.00	2933.93				473.6
	1254.93			504.60	1679.82				873.2
	354.62			2877.63	892.09				
	3048.16			3907.79	653.35				
	1536.41			617.60	2313.03				
	1366.29				2798.73				
	744.99				2175.38				
	4742.36								
	1688.03								
	514.46								
	1556.13								
	1403.27								
	1898.42								
	709.65								
	231.35								
2187.86	1194.51	1145.27	1310.88	1007.47	1101.58	1000.69	2475.32	1047.99	1468.8
1869.91	1046.53	1000.10	904.01	992.32	795.00	873.33	3184.92	928.72	1062.5
								Mean	1394.0
								St Dev	518.8

**TAB 2d**

## Males - 10 mg/kg PND-90-92 Study

172A1	173A1	174A1	175A1	176A1	177A1	532	533	534	535
822.24	1596.81	313.12	206.28	523.09	656.23	254.32	3326.95	1478.04	118.63
1081.53	2656.56	228.88	104.37	183.68	161.49	550.26	269.72	590.64	1863.48
1144.81	1190.42	140.53	954.55	43.15	2679.98	1885.95	924.87	103.23	139.02
779.50	690.34	436.39	3135.27	684.58	2539.45	974.40	909.47	254.74	1460.56
3334.16	1685.57	897.44	235.04	511.59	2726.41	1170.86	2025.81	164.00	962.75
1173.98	1641.60	169.71	126.97	334.07	2458.50	328.82	925.29	837.05	970.66
106.84	462.28	580.21	158.61	1371.22	4773.18	378.36	1392.72	467.01	994.80
106.84	260.93	2492.19	89.99	240.39	4008.47	1878.88	965.25	1878.04	1333.20
2163.46	654.18	1381.90	170.94	574.46	3916.01	2298.44	1576.69	447.45	519.04
3535.09	938.94	511.59	66.98	437.21	1049.47	536.11	4103.23	585.22	355.05
1681.05	1503.12	1215.89	716.22	894.56	4287.06	2271.38	415.40	69.93	1127.16
1139.46	948.39	345.58	153.68	892.09	3733.97	1795.21	427.89	201.04	183.56
1434.50	2889.96	39.45	181.21	173.00	5401.87	267.64	67.43	564.00	1510.93
312.30	1958.83	200.12	696.50	1437.38	1119.74	946.51	1040.17	873.26	2083.25
118.75	902.37	83.42	347.63	578.98	698.14	1995.42	527.37	137.77	1036.84
606.10	515.29	253.95	857.99	1884.04	4720.58	558.59	1639.96	586.47	1515.92
1815.83	130.67	408.04	85.06	599.52	1122.62	1091.36	632.67	435.80	156.09
814.84	530.49	43.15	174.64	426.53	3680.56	2684.29	922.79	141.94	97.82
376.40	499.26	470.09	957.43	344.35	1533.53	1310.30	1588.76	812.07	1274.92
472.14	268.49	53.01	3400.85	1646.12	1445.60	1622.89	1419.38	441.12	121.96
436.39	1070.43	526.38	574.46	500.08	1500.66	2520.29	509.05	161.08	286.37
1168.23	1117.69	2533.28	3966.55	94.51	1323.14	3231.22	128.62	319.25	2676.38
215.73	133.96	833.33	244.49	1511.34	2564.51	1525.08	631.84	173.15	3268.26
3500.99	91.63	66.98	1664.20	216.96	4086.13	587.72	1533.82	83.66	1754.42
2050.87	168.06	196.42	262.57	480.36	1446.42	756.71	1510.51	1299.90	1039.75
869.49	354.21	339.00	1175.21	1208.91	1959.65	575.65	1643.70	105.72	2091.99
239.56	711.70	55.88	173.82	1403.27	3216.63	989.39	2416.65	954.84	244.75
76.02	298.32	116.29	544.87	654.18	436.39	3786.89	935.28	522.37	479.08
1471.48	224.36	36.57	2254.27	431.87	2093.20	2826.22	1111.34	172.74	95.32
707.18	2896.94	439.27	1847.88	1077.01	1013.73	768.78	1440.17	2085.33	116.13
112.59	317.23	95.74	1515.04	971.81	2313.03	1716.96	3327.37	776.28	158.59
307.78	405.98	617.19	139.71	982.50	865.80	732.15	922.37	3424.35	1763.16
181.21	1068.38	302.43	698.96	1107.82		727.16	815.40	175.23	278.88
916.34	127.79	76.43	1559.83	904.83		1654.94	3336.11	573.57	364.62
114.23	55.47	42.32	1565.17	3310.32		730.91	389.59	3668.26	542.35
552.68	113.00	530.49	1063.86	954.14		3002.71	1609.16	1712.38	705.93
264.22	1885.27	285.59	1052.76	3428.67		670.97	323.41	3483.87	1176.69

624.59	1078.24	588.43	1361.36	3137.33		3083.87	3314.05	5833.92	1033.09
2230.44	546.52	2148.67	458.99	860.87		325.49	1705.31	563.16	767.53
592.13	1696.25	79.31	1260.27	449.95		649.32	1037.67	978.56	241.83
1042.90	857.17	493.51	105.19	611.44		769.20	597.29	5853.49	1150.89
1119.33	82.59	491.45	4030.65	2017.18		208.12	2106.97	522.37	1252.03
497.62	126.56	262.16	250.66	375.99		1393.97	2107.80	1745.68	409.99
297.50	1059.75	2410.01	1303.01	1793.64		1559.63	1845.99	479.50	775.44
377.63	1100.43	1088.10	6220.83	3251.56		2692.61	1614.57	750.89	221.85
3559.34	90.81	487.34		2251.40		1378.15	1045.99	1232.05	219.77
1005.51	207.92	876.07		2564.10		2000.83		34.13	1905.10
48.49	918.80	599.93		2317.14		1323.21		803.75	1077.63
1162.89	923.32	2624.92		119.58		547.35		2735.48	2757.13
758.14	595.00	660.75		885.11		3661.19			183.14
1688.03	1237.26	139.71							2325.49
9434.99	1032.63	117.52							124.45
	125.33	1793.64							
	840.32	90.40							
	981.67	137.66							
	348.04	795.53							
		544.05							
		1656.39							
		2405.49							
		904.42							
		440.09							
		1477.24							
1166.24	854.35	655.98	1071.00	1073.08	2360.38	1423.93	1370.91	1067.23	948.34
1486.21	700.09	713.85	1294.75	898.51	1443.54	961.31	938.54	1341.22	798.26
								Mean	1199.14
								StDev	466.20

**Male - 3 mg/kg PND-90-92**

**Study**

166A1	167A1	168A1	169A1	170A1	171A1	528	529	530	531
648.83	371.06	95.33	533.37	1163.30	41.09	2822.89	126.97	1024.35	4746.31
866.62	621.30	329.96	353.80	90.81	768.41	1485.95	242.03	659.31	1473.05
6038.79	295.04	888.81	111.36	263.81	1787.89	107.39	318.05	2354.21	1662.85
759.37	246.14	200.94	244.08	3323.06	202.99	658.90	53.42	928.20	2027.47
393.66	291.34	987.84	264.63	5995.23	3180.47	250.57	106.84	966.08	935.28
2647.11	857.99	1160.01	725.26	939.35	25.07	244.75	553.50	162.75	1108.01
598.29	48.49	1019.07	1809.25	277.78	658.70	1063.89	102.73	1451.82	2187.31
1337.94	836.62	27.94	74.38	226.41	228.06	369.62	419.54	321.75	627.26
2356.59	596.65	92.46	139.30	1683.10	54.65	434.96	992.77	1796.46	716.75
332.02	176.28	1234.80	133.14	48.08	171.76	130.70	183.68	244.33	1935.90
967.29	495.97	421.19	150.39	830.05	242.44	2197.29	622.54	234.76	1814.78
240.80	143.00	61.64	275.72	154.92	64.51	273.47	256.82	149.43	860.77
838.26	535.83	86.29	565.01	2230.03	349.28	1092.20	191.08	1701.15	1955.05
1233.97	687.05	176.28	389.14	271.61	66.57	910.30	294.63	439.13	4733.82
161.08	911.82	142.59	310.24	1605.85	783.61	371.70	322.16	81.17	1048.91
4058.19	37.80	166.42	78.49	1683.51	158.61	82.83	255.18	112.80	1716.96
2368.10	479.13	479.95	124.10	72.73	214.91	440.38	46.43	3080.54	4420.81
2493.01	56.71	331.61	76.84	463.51	223.54	217.27	148.75	340.06	922.37
616.37	108.07	3937.79	148.75	643.90	1228.22	122.79	95.33	367.53	925.70
219.43	608.15	195.18	110.54	379.68	1354.37	1157.96	598.29	798.34	961.50
212.85	464.74	313.94	994.82	191.90	724.44	726.74	184.50	168.99	1716.96
729.78	232.58	171.35	86.29	168.06	1102.48	2845.79	471.32	1403.95	2618.52
2460.96	378.86	1097.14	283.12	226.41	988.66	766.70	2420.28	910.30	837.05
768.82	225.18	505.42	1196.17	1032.22	4062.71	1367.33	49.31	49.95	1707.39
81.77	709.24	87.11	1118.10	69.03	3254.03	703.85	2554.65	260.15	2495.73
100.67	129.03	143.41	971.40	914.28	409.68	786.26	350.10	81.58	854.11
813.20	71.09	68.21	2548.49	2671.35	261.75	822.89	55.06	665.97	6377.52
1685.16	242.03	238.74	623.36	4296.93	1286.57	4270.55	49.72	105.72	104.48
927.84	49.31	641.85	1079.47	947.57	1318.21	62.44	156.15	1628.30	1365.66
1123.03	1164.53	548.57	128.62	671.02	296.27	1176.69	81.36	4414.98	2270.14
108.48	1688.86	145.05	3221.15	369.82	188.61	1409.37	333.25	814.15	1258.69
1300.95	2137.99	85.47	2629.85	176.69	247.78	1664.93	1535.59	537.36	2451.61
1057.28	213.68	1990.88	66.57	710.06	119.99	374.61	1803.09	871.18	1619.56
1078.24	502.96	661.98	59.17	366.12	583.50	2457.86	27.12	640.17	1936.73
581.44	93.28	529.26	517.75	369.41	415.85	741.31	284.35	1365.66	967.33
1822.40	1028.52	1962.53	1197.40	1989.23	1437.79	904.06	689.51	314.26	168.57
2967.21	278.60	438.03	645.14	1455.46	511.18	6070.34	771.29	335.07	1038.09
1266.85	3291.42	193.13	269.56	801.28	265.86	1053.49	82.59	355.88	4379.60
832.51	897.03	771.70	311.06	1500.25	372.29	220.19	154.50	237.25	1803.95

294.21	656.64	139.30	869.91	595.00	297.50	290.95	922.09	258.07	1402.29
1332.18	4068.46	60.82	423.65	1856.92	372.70	304.27	374.75	372.53	944.85
1515.86	431.46	43.56	4069.28	899.49	456.53	1132.15	83.83	442.46	2434.55
645.55	616.78	102.73	249.01	157.38	1329.72	346.31	994.00	1299.06	580.23
1081.53	173.41	529.26	131.90	580.21	320.92	488.24	85.88	1239.96	1040.58
196.83	389.14	1377.79	104.37	2293.72	2091.55	144.02	345.99	1095.53	
919.21	549.80	3316.49	855.52	1060.98	392.83	583.14	335.31	367.12	
3279.50	1775.15	437.21	1104.54	2420.28	490.22	199.38	300.79	347.14	
833.74	379.68	71.50	1092.21	500.49	5232.17	915.30	233.81	253.49	
509.12	507.89	150.81	991.95	830.05	1397.11	133.20	163.96		
294.21	1147.27	288.05	310.24	90.81	1333.83	2876.59	319.69		
396.94	1404.50	1020.30	337.77	1795.69	67.80		136.42		
145.87	1242.19	1073.31	322.98	2051.69	161.49		288.46		
1348.21	2372.21	4254.60	876.07	881.00	151.22		196.83		
394.48	278.60	37.80	207.51	704.31	603.22		264.22		
	42.32	1723.78	247.78	273.26	1095.50		64.51		
	373.11	37.80	1299.31	264.22	484.88		133.14		
	565.83	310.65		1787.48	126.15		1750.49		
		1382.73			193.13		91.22		
		1723.78			362.43		36.16		
					1134.12		30.82		
					274.49		72.73		
					2475.35		134.78		
					138.89		103.14		
					276.96		24.24		
					584.32		110.95		
					377.22				
					768.82				
					5214.50				
1153.38	687.33	690.04	679.63	1058.19	850.86	1005.49	393.58	792.72	1798.98
1111.75	774.85	904.41	811.27	1113.87	1108.08	1147.30	535.15	835.04	1311.29
								Mean	911.02
								StDev	382.33

Male - 1mg/kg PND-90-92

Study

160A1	161A1	162A1	163A1	164A1	165A1	524	525	526	527
283.12	650.07	466.80	126.97	313.94	1286.98	452.03	819.15	904.47	278.04
970.58	337.36	1861.85	320.10	95.33	397.77	3469.72	491.57	114.46	280.96
705.54	327.50	1362.18	1297.67	1202.75	822.65	1235.38	151.51	2529.87	466.18
504.19	202.58	1327.25	3334.98	1139.05	350.92	167.33	424.56	9878.04	1934.24
203.81	1118.51	1468.61	383.79	638.56	116.70	1371.49	206.45	765.45	285.95
50.13	1434.91	1140.70	246.96	3074.05	669.79	429.14	71.59	328.41	570.66
1220.41	68.21	1353.14	365.71	1014.14	1060.98	201.87	663.48	2079.08	111.13
733.48	452.83	529.67	2116.62	237.10	561.72	3143.81	1111.76	260.98	15.82
532.96	1149.74	2092.37	68.21	1867.60	1056.87	2052.03	191.05	4448.28	144.43
989.07	43.56	793.89	23.83	626.23	88.35	571.07	260.98	598.54	863.27
4186.39	673.90	1291.09	1229.45	518.98	521.04	686.79	3190.43	535.69	267.64
2339.74	9652.37	2615.47	666.50	762.25	1406.56	3077.21	2372.95	1613.32	126.12
749.51	282.71	185.73	1021.53	722.39	77.66	1484.70	427.47	1185.43	273.88
479.13	481.18	614.32	1705.70	905.24	1385.60	325.91	1314.05	157.75	99.90
290.52	173.00	120.40	1309.17	508.71	353.39	206.45	90.74	959.83	1060.56
1023.59	116.70	548.98	513.23	1392.18	492.28	948.60	360.04	3057.23	177.73
1432.45	343.52	661.16	261.34	760.19	1626.81	878.67	874.51	1970.86	861.19
83.83	145.46	1179.73	710.47	521.86	87.94	658.48	1211.24	1169.62	862.44
994.41	100.26	806.62	827.58	1409.85	285.17	491.99	111.97	318.00	236.00
1070.02	533.37	9704.55	461.46	1755.01	4516.35	1218.31	3961.71	1540.06	206.45
2513.15	168.06	794.30	130.67	3277.04	1180.55	2158.59	1274.09	4175.65	237.67
1864.73	129.03	280.65	1293.15	876.07	472.14	981.89	1900.94	4142.35	761.29
999.75	517.34	297.09	49.31	750.74	1796.93	182.31	2866.18	457.86	3721.54
1805.97	113.82	1744.33	2769.97	518.16	745.40	917.79	152.76	1465.97	412.49
5021.78	230.11	226.82	965.65	1479.29	1025.23	351.30	3473.47	345.06	511.13
2165.52	55.88	230.93	262.57	1146.04	1332.59	2653.49	751.30	82.00	791.68
3837.53	178.34	4598.54	63.69	2820.92	1934.58	737.57	165.66	239.33	1032.67
1100.84	960.72	538.71	1626.40	985.37	102.73	1051.41	573.99	1023.93	83.25
181.62	1669.95	509.53	424.89	170.53	1249.59	741.31	847.45	2624.77	1296.57
179.16	823.47	232.99	2948.72	2188.12	338.59	983.98	588.14	228.10	1705.31
1848.29	107.25	138.89	574.05	6056.87	2135.52	471.18	75.75	190.64	506.56
103.14	454.88	668.15	1319.44	798.41	175.87	1582.52	566.49	105.31	487.41
482.41	1542.16	479.13	59.17	2035.26	103.14	1634.96	1207.08	1711.97	290.11
282.30	176.69	288.46	1074.54	2681.62	1014.96	124.04	1379.81	970.66	206.87
200.94	552.27	361.60	669.38	956.20	584.73	387.51	610.61	678.04	77.84
996.88	634.04	754.44	752.79	743.34	1345.33	1303.64	1812.70	1304.89	41.62
142.59	677.60	721.98	1284.93	2031.97	1197.40	185.22	2995.21	330.49	2657.23
1842.95	815.66	168.06	1871.71	198.06	1090.98	233.51	75.34	161.50	223.52
231.76	129.03	844.84	731.43	1165.35	691.98	649.32	2568.99	1063.06	211.03

251.48	245.73	1309.58	3162.80	1738.99	1001.81	1330.70	1564.20	88.24	936.52
431.87	637.33	825.94	1347.80	1716.80	2530.41	445.37	342.14	489.49	321.75
1504.36	305.72	232.17	66.98	358.32	1376.56		2096.15	869.51	241.42
1549.97	396.53	373.11	329.14	975.51	952.09		777.52	531.11	156.50
691.16	166.42	152.86	1250.00	814.43	3329.64		3187.10	1846.83	1154.21
	136.42	321.75	89.58	1188.77	142.59		816.23	861.60	834.96
	73.55			1070.84	106.02		141.10	101.98	293.03
	322.57			103.96	267.51		136.52	243.91	488.66
5254.77			4417.74	189.02			960.25		566.49
439.27			2127.30	130.67			1707.39		1037.67
446.66			2458.91	1591.47			85.33		135.69
262.99				385.85			1587.93		943.18
387.90				704.31			2987.31		1036.00
192.31				1105.77					609.37
528.02									396.25
91.63									1031.84
295.04									
1865.14									
774.98									
27.94									
1397.52									
415.02									
448.31									
290.52									
675.95									
1115.29	692.22	1049.32	935.78	1346.33	933.91	1028.75	1126.58	1292.55	628.40
1111.21	1351.12	1547.57	866.42	1133.53	849.06	860.72	1056.32	1692.77	664.93

Mean	1014.91
StDev	230.26

Male - 0.1 mg/kg PND-90-92 Study

154A1	155A1	156A1	157A1	158A1	159A1	520	521	522	523
169.71	1064.27	1474.77	1937.05	236.69	2327.83	641.83	2432.88	797.50	889.91
634.45	1628.86	434.34	4568.54	129.85	3163.63	459.11	989.39	1853.07	1235.38
1498.60	108.89	1798.98	741.29	153.68	752.79	522.79	1126.74	133.61	624.77
334.07	283.94	3438.94	77.25	2393.98	617.19	307.60	1070.97	841.62	1630.80
1542.98	362.84	156.15	461.05	220.66	765.53	1268.68	623.52	908.64	713.42
316.82	625.00	1485.04	618.43	444.20	2309.34	743.81	332.57	936.52	80.33
1251.23	348.46	743.75	167.65	135.60	1378.62	185.22	318.00	2431.22	1706.14
319.69	112.59	742.11	763.48	2001.97	922.50	94.90	1517.59	206.04	2049.53
4359.39	538.71	1273.83	421.19	733.48	1339.99	636.84	2390.43	620.19	2098.23
3595.50	248.60	1477.65	721.57	17.67	205.46	179.40	1503.43	5478.88	1860.56
1305.88	428.99	3236.77	454.06	791.42	982.50	228.10	1539.23	464.10	93.24
208.74	834.98	927.43	382.15	1758.71	271.61	333.82	1735.69	2544.85	2429.97
130.67	99.03	887.57	589.25	1070.02	189.43	50.78	2822.06	288.87	64.52
571.99	530.08	546.11	238.33	525.97	378.45	973.99	1689.91	1679.50	2119.88
91.63	170.94	604.04	1764.88	873.60	299.15	195.21	1224.97	354.63	1688.24
193.54	288.87	655.00	113.41	80.95	9574.29	346.72	455.78	124.87	158.59
260.11	459.81	186.56	243.67	161.08	246.96	1010.20	1752.76	133.20	1473.05
146.29	339.00	735.54	159.44	384.20	2010.60	619.77	457.86	939.85	2564.00
735.95	389.14	641.03	310.24	875.25	2236.60	1894.69	394.59	203.54	449.53
76.84	206.28	998.11	779.50	71.91	45.20	2901.56	1033.51	242.25	84.08
53.42	51.78	1076.18	137.25	216.14	363.25	755.88	1042.25	631.01	1341.10
547.34	536.65	2631.49	292.16	2059.91	2456.85	498.23	794.17	1013.94	2181.48
486.93	82.59	2152.78	334.00	466.80	841.14	129.87	1025.18	212.28	874.09
613.91	589.96	298.32	1416.89	79.31	1131.25	29.97	8442.46	2067.85	1002.29
136.42	99.85	2190.99	627.88	373.52	2014.30	1865.56	406.66	115.30	748.80
548.16	1481.34	152.86	437.21	57.53	1456.69	2504.06	1208.74	1440.17	240.17
193.95	78.90	3403.19	152.04	35.34	2471.24	2124.87	526.95	1287.83	1000.21
198.47	179.98	378.04	285.59	108.48	507.07	2325.49	134.03	191.88	2578.98
172.58	310.24	821.01	1538.46	261.34	111.36	1008.95	213.94	274.71	442.46
2551.36	251.07	1303.01	1239.32	2083.74	3394.97	1398.13	478.25	162.33	208.53
348.04	237.92	2004.44	556.38	1044.54	3115.14	1649.12	114.05	1232.05	1310.30
849.36	338.18	74.79	562.54	627.47	2634.78	111.13	38.71	147.76	2997.71
148.75	917.57	1119.74	203.40	1706.11	133.96	59.11	655.57	193.13	29.55
108.48	410.09	824.70	157.79	329.14	4429.65	85.74	356.30	433.72	599.38
756.08	124.10	2978.30	1236.85	729.78	514.46	591.05	320.08	436.21	376.69
3284.85	81.36	874.01	2004.44	249.84	457.76	148.60	57.44	872.84	547.35
375.16	232.17	3354.29	201.35	62.46	1126.32	261.39	431.63	987.72	2831.22
1101.25	91.63	4386.92	700.61	266.27	1865.96	782.52	4088.24	137.36	1956.30
318.87	730.19	141.35	364.48	1067.14	4971.24	42.04	110.30	894.07	297.61
102.73	92.87	2416.58	3018.57	323.39	577.75	201.46	1719.88	35.38	
401.87	219.84	1614.89	95.33	1339.17	86.70	19.15	380.44	504.06	

185.32	265.86	4133.79	377.22	117.93	1867.60	792.51	870.76	218.11	
165.60	1418.89	774.16	405.16	1142.34		74.51	361.29	920.29	
975.51	230.11	744.17	4037.64	1071.66		901.56	293.44	319.67	
97.39	555.56		99.03	2710.39		72.43		1900.10	
4759.62	70.27		177.93	615.55		1172.53		104.89	
960.31	745.40		120.81	2467.54		844.95		529.87	
1780.49	575.69		3497.70	198.06		376.69		825.81	
690.75	39.86		1090.16	1857.74				1390.64	
832.10	48.49		1339.17	718.69				660.56	
684.58	545.28		73.14	899.08				407.49	
835.80	414.20		431.87	66.57				45.37	
465.16	356.26		294.63	518.98				889.91	
555.97	40.68		922.91					120.29	
191.90	389.55		241.21					120.71	
203.40	150.39		324.62					942.77	
1086.46	500.08		3009.12					218.52	
248.60	85.47							241.00	
906.07	1253.70							388.35	
597.47								731.32	
419.13									
930.31									
7970.50									
898.17	401.58	1415.77	833.69	734.58	1584.45	717.13	1124.61	757.17	1168.68
1333.44	367.35	1142.17	1010.80	727.95	1751.76	724.04	1404.86	865.67	890.06
									Mean 963.58
									StDev 357.57

Male - Controls PND-90-92 Study

148A1	149A1	150A1	151A1	152A1	153A1	516	517	518	519
1169.46	1126.32	384.62	134.37	577.33	706.36	149.57	3107.18	228.93	151.93
466.39	235.45	5306.13	2617.93	170.12	1350.67	1310.40	270.14	740.06	536.94
852.24	152.45	1721.32	943.46	1465.32	821.01	394.07	1018.94	1206.24	926.54
1951.43	194.36	624.59	2431.38	2757.23	2580.95	5195.18	181.89	1729.03	1825.60
1244.25	137.25	499.26	198.06	1538.05	6349.44	1531.07	427.06	316.34	157.75
91.22	1185.08	56.71	2296.19	1194.12	318.87	1155.49	2098.65	116.96	947.35
345.99	171.35	16.85	2652.86	456.94	1463.26	234.63	38.29	2615.61	233.92
424.06	624.18	3996.14	7591.63	1930.88	78.90	2407.96	940.69	604.79	2136.94
3081.03	352.15	211.21	4826.18	7708.33	181.21	243.67	6687.62	4237.67	3162.54
1169.05	312.30	54.24	1264.38	3127.06	3316.90	2314.68	7198.34	417.90	244.75
79.72	843.61	2127.30	852.65	1566.40	535.83	257.64	1718.21	524.04	984.81
108.89	458.99	80.54	2558.76	138.89	587.20	1190.83	1657.44	1820.19	1085.12
771.29	274.90	358.73	178.75	3212.94	4221.73	705.13	3728.20	531.95	421.23
1918.56	528.44	61.23	311.88	571.17	163.54	942.23	471.18	1463.89	600.21
908.94	783.20	1552.43	222.72	2239.89	491.45	174.64	1202.08	445.37	956.50
486.93	332.43	151.63	1291.50	2228.39	390.37	249.43	464.93	3395.21	598.54
229.70	332.43	485.70	241.62	112.59	795.94	795.94	1120.08	1572.95	179.81
2031.97	175.05	1012.90	636.92	781.97	788.96	301.61	2652.65	436.21	2347.97
2789.69	339.83	1367.11	279.42	906.89	885.93	1628.86	4402.08	1636.21	1434.34
1503.12	967.70	2838.18	82.18	2025.40	69.86	288.46	4612.28	1786.47	29.97
399.41	1214.66	1331.36	883.47	1653.11	1107.41	2275.23	395.84	139.44	1079.29
2696.01	399.82	113.41	259.70	1867.19	107.66	334.48	3785.22	485.33	111.13
791.83	1295.61	75.20	128.62	2389.88	734.30	127.38	1985.02	323.83	891.16
3075.28	307.36	3311.14	330.38	7390.29	52.60	69.03	3669.51	189.39	2724.25
496.38	688.28	839.09	157.79	4521.29	1063.45	452.83	1950.05	248.08	3575.86
509.12	138.48	1761.59	1983.07	1545.04	40.68	297.50	1219.15	408.33	323.00
772.52	387.08	2755.18	69.44	1557.36	474.20	110.54	4626.43	306.35	1385.64
2630.67	201.76	4112.43	1925.54	1310.40	463.92	3761.10	1367.74	59.52	5014.36
1967.46	257.23	970.58	57.94	906.89	210.80	406.39	2168.99	104.06	307.18
507.48	364.48	1976.09	4845.09	1030.98	743.34	1784.19	256.82	113.63	266.81
2137.16	809.50	540.76	1925.54	3371.96	1906.23	3785.75	1311.55	500.73	2737.98
3158.28	149.98	161.49	2855.44	2154.42	1139.46	3444.69	1145.89	292.61	354.63
2789.69	1360.95	349.69	2848.87	6706.11	391.60	1423.00	192.72	309.68	2042.87
1503.12	712.94	58.76	362.43	273.26	1505.59	1824.87	613.94	1243.70	3091.78
399.41	947.16	568.71	239.15	3443.87	1478.47	614.32	322.58	246.83	2795.42
2696.01	1455.05	526.79	1429.16	883.47	629.52	548.16	373.36	218.52	655.15
791.83	141.35	351.33	448.31	6283.28	156.56	738.82	134.44	226.43	151.09
3075.28	235.87	157.79	1049.47		1645.30	23.01	1076.38	303.85	2601.46
496.38	304.49	212.03	4410.75		293.39	8357.99	264.72	564.83	176.07
509.12	1102.07	1153.02			877.71	133.96	294.69	174.40	931.53
772.52	166.42	911.41			448.31	1192.88	591.88	621.44	2322.58

2630.67	129.85	420.37		1491.21	648.42	526.12	1140.90	3864.72	
1967.46	177.52	70.27		6379.44	706.77	308.01	461.19	323.00	
507.48	522.27	1649.82		100.67	1279.18	358.79	165.66	837.46	
2137.16	53.01	83.01		701.02	382.56	1040.58	815.82		
3158.28	89.99	748.27		2027.04	214.50	4849.12	761.71		
	327.09	362.84		1106.18	1362.18	442.46	578.15		
	336.54			230.11	160.26	3073.05	589.39		
	363.66			67.80		567.74	565.25		
2154.83							402.91		
927.43							454.53		
52.60							2996.05		
217.78							622.27		
202.17							292.20		
36.57									
495.97									
943.46									
284.76									
271.61									
46.84									
992.36									
1576.68									
816.90									
1395.65	526.79	1031.47	1482.64	2216.18	1095.35	1206.91	1692.06	791.72	1307.44
1024.89	451.26	1225.78	1682.52	1989.90	1383.49	1544.75	1759.53	871.36	1223.73

Mean	1274.62
StDev	472.35

### TAB 3

MEAN THYROID FOLLICULAR COUNTS  
PER ANIMAL BY GROUP AND SEX

DOSE GROUP	5-DAY OLD PUP STUDY		POST-NATAL DAY 90-92 STUDY	
	FEMALES	MALES	FEMALES	MALES
10 mg	122.6±17.3	114.2±24.1	54.6±9.1	49.4±7.8
3 mg	126.8±24.8	122.1±18.4	54.7±9.6	55.8±7.3
1 mg	131.9±19.8	128.0±27.4	49.7±13.0	49.6±6.7
0.1 mg	142.9±20.6	136.6±29.9	55.3±11.7	50.9±8.6
0 mg	133.9±15.6	134.8±18.5	58.5±11.0	47.8±7.3

**TAB 4a**  
**Statistical Worksheets for 5-Day Old Rat Pup Study**

Tuesday, October 27, 1998, 09:06:21  
Normality Test:Passed (P = 0.0955)

Equal Variance Test:Passed (P = 0.7412)

Group	N	Missing
F 10mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 10mg	211.4	120.0	37.9
F Controls	320.7	82.6	26.1

Difference -109.2

t = -2.37 with 18.0 degrees of freedom. (P = 0.0291)

95 percent confidence interval for difference of means:  
-206.0 to -12.5

The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups (P = 0.0291).

Power of performed test with alpha = 0.0500: 0.5236

The power of the performed test (0.5236) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:06:45

t-test

Normality Test: Passed (P = 0.4571)

Equal Variance Test: Passed (P = 0.7706)

Group	N	Missing
F 3mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 3mg	235.6	132.1	41.8
F Controls	320.7	82.6	26.1

Difference -85.1

t = -1.73 with 18.0 degrees of freedom. (P = 0.1012)

95 percent confidence interval for difference of means:  
-188.5 to 18.4

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.1012).

Power of performed test with alpha = 0.0500: 0.2526

The power of the performed test (0.2526) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:07:18

t-test

Normality Test: Passed (P = 0.7256)

Equal Variance Test: Passed (P = 0.4558)

Group	N	Missing
F 1mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 1mg	255.2	74.7	23.6
F Controls	320.7	82.6	26.1

Difference -65.5

t = -1.86 with 18.0 degrees of freedom. (P = 0.0794)

95 percent confidence interval for difference of means:  
-139.4 to 8.50

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the two groups (P = 0.0794).

Power of performed test with alpha = 0.0500: 0.3036

The power of the performed test (0.3036) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:07:40

t-test

Normality Test: Passed (P = 0.6702)

Equal Variance Test: Passed (P = 0.1597)

Group	N	Missing
F 0.1mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 0.1mg	264.7	63.2	20.0
F Controls	320.7	82.6	26.1

Difference -56.0

t = -1.70 with 18.0 degrees of freedom. (P = 0.1059)

95 percent confidence interval for difference of means:  
-125.0 to 13.1

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.1059).

Power of performed test with alpha = 0.0500: 0.2434

The power of the performed test (0.2434) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:00:48

t-test

Normality Test: Passed ( $P = 0.6145$ )

Equal Variance Test: Passed ( $P = 0.4095$ )

Group	N	Missing
M 10mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 10mg	209.7	73.8	23.3
M Controls	315.0	50.5	16.0

Difference -105.3

$t = -3.73$  with 18.0 degrees of freedom. ( $P = 0.0015$ )

95 percent confidence interval for difference of means:  
-164.7 to -45.9

The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups ( $P = 0.0015$ ).

Power of performed test with alpha = 0.0500: 0.9384

Tuesday, October 27, 1998, 09:04:57

t-test

Normality Test: Passed (P = 0.7086)

Equal Variance Test: Passed (P = 0.5453)

Group	N	Missing
M 3mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 3mg	208.4	46.1	14.6
M Controls	315.0	50.5	16.0

Difference -106.6

t = -4.93 with 18.0 degrees of freedom. (P = 0.0001)

95 percent confidence interval for difference of means:  
-152.0 to -61.2

The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups (P = 0.0001).

Power of performed test with alpha = 0.0500: 0.9979

Tuesday, October 27, 1998, 09:05:28

t-test

Normality Test: Passed (P = 0.2277)

Equal Variance Test: Passed (P = 0.0904)

Group	N	Missing
M 1mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 1mg	290.8	143.2	45.3
M Controls	315.0	50.5	16.0

Difference -24.2

t = -0.505 with 18.0 degrees of freedom. (P = 0.6200)

95 percent confidence interval for difference of means:  
-125.1 to 76.7

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.6200).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:05:50

t-test

Normality Test: Passed (P = 0.5036)

Equal Variance Test: Passed (P = 0.2660)

Group	N	Missing
M 0.1mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 0.1mg	255.0	38.2	12.1
M Controls	315.0	50.5	16.0

Difference -60.0

t = -3.00 with 18.0 degrees of freedom. (P = 0.0077)

95 percent confidence interval for difference of means:  
-102.0 to -17.9

The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups (P = 0.0077).

Power of performed test with alpha = 0.0500: 0.7721

The power of the performed test (0.7721) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:08:12

t-test

Normality Test: Passed (P = 0.2003)

Equal Variance Test: Passed (P = 0.4716)

Group	N	Missing
M 10mg	10	0
F 10mg	10	0

Group	Mean	Std Dev	SEM
M 10mg	209.7	73.8	23.3
F 10mg	211.4	120.0	37.9

Difference -1.74

t = -0.0391 with 18.0 degrees of freedom. (P = 0.9693)

95 percent confidence interval for difference of means:  
-95.3 to 91.8

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.9693).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:08:41

t-test

Normality Test: Failed (P = 0.0226)

Test execution ended by user request, Rank Sum Test begun

Tuesday, October 27, 1998, 09:08:41

Mann-Whitney Rank Sum Test

Group	N	Missing
M 3mg	10	0
F 3mg	10	0

Group	Median	25%	75%
M 3mg	211.5	190.4	231.3
F 3mg	196.7	172.3	244.4

T = 108.0 n(small)= 10 n(big)= 10 (P = 0.8501)

The differences in the median values among the two groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.850)

Tuesday, October 27, 1998, 09:09:09

t-test

Normality Test: Passed ( $P = 0.0617$ )

Equal Variance Test: Passed ( $P = 0.2119$ )

Group	N	Missing
M 1mg	10	0
F 1mg	10	0

Group	Mean	Std Dev	SEM
M 1mg	290.8	143.2	45.3
F 1mg	255.2	74.7	23.6

Difference 35.6

$t = 0.697$  with 18.0 degrees of freedom. ( $P = 0.4949$ )

95 percent confidence interval for difference of means:  
-71.7 to 142.9

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups ( $P = 0.4949$ ).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:09:34

t-test

Normality Test: Passed ( $P = 0.5268$ )

Equal Variance Test: Passed ( $P = 0.4983$ )

Group	N	Missing
M 0.1mg	10	0
F 0.1mg	10	0

Group	Mean	Std Dev	SEM
M 0.1mg	255.0	38.2	12.1
F 0.1mg	264.7	63.2	20.0

Difference -9.67

$t = -0.414$  with 18.0 degrees of freedom. ( $P = 0.6837$ )

95 percent confidence interval for difference of means:  
-58.7 to 39.4

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups ( $P = 0.6837$ ).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:09:56

t-test

Normality Test: Passed (P = 0.4232)

Equal Variance Test: Passed (P = 0.0765)

Group	N	Missing
M Controls	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
M Controls	315.0	50.5	16.0
F Controls	320.7	82.6	26.1

Difference -5.66

t = -0.185 with 18.0 degrees of freedom. (P = 0.8554)

95 percent confidence interval for difference of means:  
-69.9 to 58.6

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.8554).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Tuesday, October 27, 1998, 09:13:13

One Way Analysis of Variance

Normality Test: Failed (P = 0.0072)

Test execution ended by user request, ANOVA on Ranks begun

Tuesday, October 27, 1998, 09:13:13

Kruskal-Wallis One Way Analysis of Variance on Ranks

Group	N	Missing
F 10mg	10	0
F 3mg	10	0
F 1mg	10	0
F 0.1mg	10	0
F Controls	10	0

Group	Median	25%	75%
F 10mg	165.6	126.0	244.4
F 3mg	196.7	172.3	244.4
F 1mg	238.6	212.1	290.5
F 0.1mg	256.2	221.7	285.0
F Controls	327.6	252.0	392.6

H = 11.1 with 4 degrees of freedom. (P = 0.0258)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.0258)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Dunnett's Method) :

Comparison	Diff of Ranks	p	q'
F 10mg vs F Controls	192.0	5	2.95
F 3mg vs F Controls	165.0	4	3.16
F 1mg vs F Controls	99.0	3	2.51
F 0.1mg vs F Controls	69.0	2	2.61

Comparison	P<0.05
F 10mg vs F Controls	Yes
F 3mg vs F Controls	Yes
F 1mg vs F Controls	Yes
F 0.1mg vs F Controls	Yes

Tuesday, October 27, 1998, 09:12:24

One Way Analysis of Variance

Normality Test: Passed (P = 0.1093)

Equal Variance Test: Failed (P = 0.0327)

Test execution ended by user request, ANOVA on Ranks begun

Tuesday, October 27, 1998, 09:12:24

Kruskal-Wallis One Way Analysis of Variance on Ranks

Group	N	Missing
M 10mg	10	0
M 3mg	10	0
M 1mg	10	0
M 0.1mg	10	0
M Controls	10	0

Group	Median	25%	75%
M 10mg	211.9	143.5	255.0
M 3mg	211.5	190.4	231.3
M 1mg	278.8	184.2	370.1
M 0.1mg	259.0	225.2	281.0
M Controls	314.2	261.2	361.1

H = 15.1 with 4 degrees of freedom. (P = 0.0046)

The differences in the median values among the treatment groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.00458)

To isolate the group or groups that differ from the others use a multiple comparison procedure.

All Pairwise Multiple Comparison Procedures (Dunnett's Method) :

Comparison	Diff of Ranks	p	q'
M 3mg vs M Controls	214.0	5	3.28
M 10mg vs M Controls	212.0	4	4.05
M 0.1mg vs M Controls	110.0	3	2.79
M 1mg vs M Controls	99.0	2	3.74

Comparison P<0.05  
M 3mg vs M Controls Yes  
M 10mg vs M Controls Yes  
M 0.1mg vs M Controls Yes  
M 1mg vs M Controls Yes

## Tab 4b

### Statistical Worksheets for PND-90-92 Study

Wednesday, October 21, 1998, 13:06:52

#### t-test

Normality Test: Passed ( $P = 0.1134$ )

Equal Variance Test: Passed ( $P = 0.8562$ )

Group	N	Missing
F 10mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 10mg	1566.5	450.2	142.3
F Controls	1394.0	518.9	164.1

Difference 172.5

$t = 0.794$  with 18.0 degrees of freedom. ( $P = 0.4376$ )

95 percent confidence interval for difference of means:  
-283.9 to 628.8

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups ( $P = 0.4376$ ).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:08:09

t-test

Normality Test: Failed ( $P = 0.0042$ )

Test execution ended by user request, Rank Sum Test begun

Wednesday, October 21, 1998, 13:08:09

Mann-Whitney Rank Sum Test

Group	N	Missing
F 3mg	10	0
F Controls	10	0

Group	Median	25%	75%
F 3mg	1067.0	861.0	1985.0
F Controls	1169.9	1048.0	1468.9

$T = 91.0$  n(small) = 10 n(big) = 10 ( $P = 0.3075$ )

The differences in the median values among the two groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference ( $P = 0.307$ )

Wednesday, October 21, 1998, 13:08:56

t-test

Normality Test: Failed (P = 0.0270)

Test execution ended by user request, Rank Sum Test begun

Wednesday, October 21, 1998, 13:08:56

Mann-Whitney Rank Sum Test

Group	N	Missing
F 1mg	10	0
F Controls	10	0

Group	Median	25%	75%
F 1mg	1604.8	1158.6	2460.1
F Controls	1169.9	1048.0	1468.9

T = 121.0 n(small)= 10 n(big)= 10 (P = 0.2413)

The differences in the median values among the two groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.241)

Wednesday, October 21, 1998, 13:09:31

t-test

Normality Test: Passed ( $P = 0.1121$ )

Equal Variance Test: Passed ( $P = 0.0984$ )

Group	N	Missing
F 0.1mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 0.1mg	1550.3	726.2	229.6
F Controls	1394.0	518.9	164.1

Difference 156.3

$t = 0.554$  with 18.0 degrees of freedom. ( $P = 0.5866$ )

95 percent confidence interval for difference of means:  
-436.7 to 749.2

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups ( $P = 0.5866$ ).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.  
You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:10:10

t-test

Normality Test: Passed (P = 0.1551)

Equal Variance Test: Passed (P = 0.6826)

Group	N	Missing
M 10mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 10mg	1199.1	466.2	147.4
M Controls	1274.6	472.4	149.4

Difference -75.5

t = -0.360 with 18.0 degrees of freedom. (P = 0.7233)

95 percent confidence interval for difference of means:  
-516.4 to 365.4

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.7233).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:10:39

t-test

Normality Test: Passed (P = 0.4005)

Equal Variance Test: Passed (P = 0.5387)

Group	N	Missing
M 3mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 3mg	911.0	382.3	120.9
M Controls	1274.6	472.4	149.4

Difference -363.6

t = -1.89 with 18.0 degrees of freedom. (P = 0.0747)

95 percent confidence interval for difference of means:  
-767.3 to 40.1

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.0747).

Power of performed test with alpha = 0.0500: 0.3167

The power of the performed test (0.3167) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:11:09

t-test

Normality Test: Passed (P = 0.5509)

Equal Variance Test: Passed (P = 0.1208)

Group	N	Missing
M 1mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 1mg	1014.9	230.3	72.8
M Controls	1274.6	472.4	149.4

Difference -259.7

t = -1.56 with 18.0 degrees of freedom. (P = 0.1355)

95 percent confidence interval for difference of means:  
-608.8 to 89.4

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.1355).

Power of performed test with alpha = 0.0500: 0.1946

The power of the performed test (0.1946) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:11:37

t-test

Normality Test: Passed (P = 0.4875)

Equal Variance Test: Passed (P = 0.5733)

Group	N	Missing
M 0.1mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 0.1mg	963.6	357.6	113.1
M Controls	1274.6	472.4	149.4

Difference -311.0

t = -1.66 with 18.0 degrees of freedom. (P = 0.1142)

95 percent confidence interval for difference of means:  
-704.6 to 82.6

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.1142).

Power of performed test with alpha = 0.0500: 0.2281

The power of the performed test (0.2281) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:15:30

t-test

Normality Test: Failed (P = 0.0190)

Test execution ended by user request, Rank Sum Test begun

Wednesday, October 21, 1998, 13:15:30

Mann-Whitney Rank Sum Test

Group	N	Missing
F 10mg	10	0
M 10mg	10	0

Group	Median	25%	75%
F 10mg	1627.0	1418.3	1747.9
M 10mg	1072.0	948.3	1370.9

T = 134.0 n(small)= 10 n(big)= 10 (P = 0.0312)

The differences in the median values among the two groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.0312)

Wednesday, October 21, 1998, 13:16:12

t-test

Normality Test: Passed ( $P = 0.0508$ )

Equal Variance Test: Passed ( $P = 0.2547$ )

Group	N	Missing
F 3mg	10	0
M 3mg	10	0

Group	Mean	Std Dev	SEM
F 3mg	1281.4	612.3	193.6
M 3mg	911.0	382.3	120.9

Difference 370.3

$t = 1.62$  with 18.0 degrees of freedom. ( $P = 0.1221$ )

95 percent confidence interval for difference of means:  
-109.2 to 849.9

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups ( $P = 0.1221$ ).

Power of performed test with alpha = 0.0500: 0.2148

The power of the performed test (0.2148) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:16:40

t-test

Normality Test: Passed (P = 0.1152)

Equal Variance Test: Failed (P = 0.0125)

Test execution ended by user request, Rank Sum Test begun

Wednesday, October 21, 1998, 13:16:40

Mann-Whitney Rank Sum Test

Group	N	Missing
F 1mg	10	0
M 1mg	10	0

Group	Median	25%	75%
F 1mg	1604.8	1158.6	2460.1
M 1mg	1039.0	933.9	1126.6

T = 140.0 n(small) = 10 n(big) = 10 (P = 0.0091)

The differences in the median values among the two groups are greater than would be expected by chance; there is a statistically significant difference (P = 0.00911)

Wednesday, October 21, 1998, 13:17:10

t-test

Normality Test: Passed (P = 0.8001)

Equal Variance Test: Failed (P = 0.0097)

Test execution ended by user request, Rank Sum Test begun

Wednesday, October 21, 1998, 13:17:10

Mann-Whitney Rank Sum Test

Group	N	Missing
F 0.1mg	10	0
M 0.1mg	10	0

Group	Median	25%	75%
F 0.1mg	1395.3	910.0	2104.1
M 0.1mg	865.9	734.6	1168.7

T = 129.0 n(small) = 10 n(big) = 10 (P = 0.0757)

The differences in the median values among the two groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.0757)

Wednesday, October 21, 1998, 13:17:34

t-test

Normality Test: Passed (P = 0.2360)

Equal Variance Test: Passed (P = 0.9508)

Group	N	Missing
F Controls	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
F Controls	1394.0	518.9	164.1
M Controls	1274.6	472.4	149.4

Difference 119.4

t = 0.538 with 18.0 degrees of freedom. (P = 0.5970)

95 percent confidence interval for difference of means:  
-346.7 to 585.6

The difference in the mean values of the two groups is not great enough to reject the possibility that the difference is due to random sampling variability. There is not a statistically significant difference between the input groups (P = 0.5970).

Power of performed test with alpha = 0.0500: 0.0500

The power of the performed test (0.0500) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Wednesday, October 21, 1998, 13:13:30

One Way Analysis of Variance

Normality Test: Passed (P = 0.1605)

Equal Variance Test: Passed (P = 0.2414)

Group	N	Missing
F 10mg	10	0
F 3mg	10	0
F 1mg	10	0
F 0.1mg	10	0
F Controls	10	0

Group	Mean	Std Dev	SEM
F 10mg	1566.5	450.2	142.3
F 3mg	1281.4	612.3	193.6
F 1mg	1762.0	784.4	248.0
F 0.1mg	1550.3	726.2	229.6
F Controls	1394.0	518.9	164.1

Power of performed test with alpha = 0.0500: 0.0495

The power of the performed test (0.0495) is below the desired power of 0.8000.

You should interpret the negative findings cautiously.

Source of Variance	DF	SS	MS
Between Treatments	4	1340618.2	335154.6
Residual	45	17903916.8	397864.8
Total	49	19244535.0	

Source of Variance	F	P
Between Treatments	0.842	0.5057
Residual		
Total		

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.506).

Wednesday, October 21, 1998, 13:14:36

One Way Analysis of Variance

Normality Test: Passed (P = 0.1489)

Equal Variance Test: Passed (P = 0.7445)

Group	N	Missing
M 10mg	10	0
M 3mg	10	0
M 1mg	10	0
M 0.1mg	10	0
M Controls	10	0

Group	Mean	Std Dev	SEM
M 10mg	1199.1	466.2	147.4
M 3mg	911.0	382.3	120.9
M 1mg	1014.9	230.3	72.8
M 0.1mg	963.6	357.6	113.1
M Controls	1274.6	472.4	149.4

Power of performed test with alpha = 0.0500: 0.1789

The power of the performed test (0.1789) is below the desired power of 0.8000.

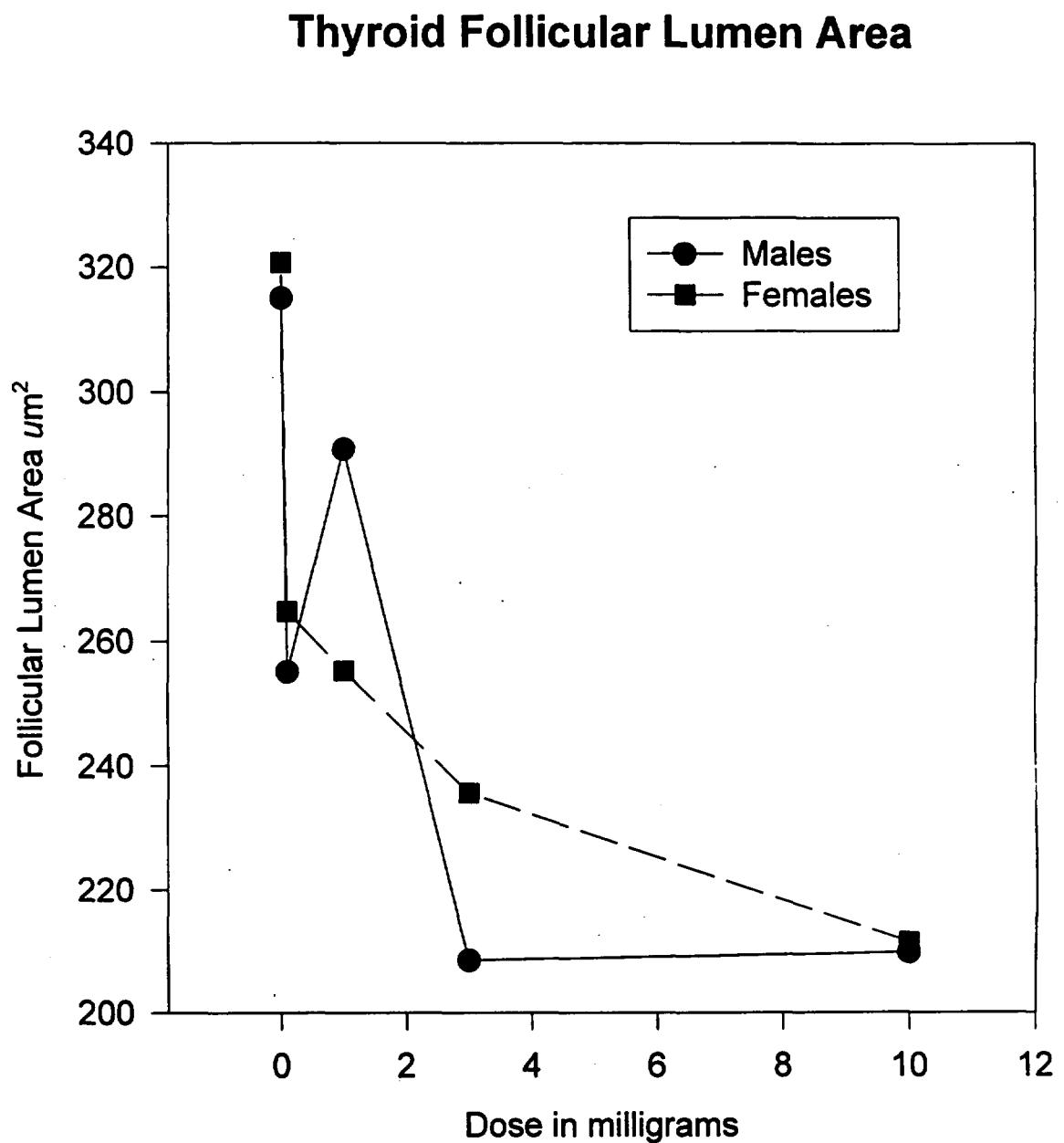
You should interpret the negative findings cautiously.

Source of Variance	DF	SS	MS
Between Treatments	4	981464.5	245366.1
Residual	45	6907666.5	153503.7
Total	49	7889131.0	

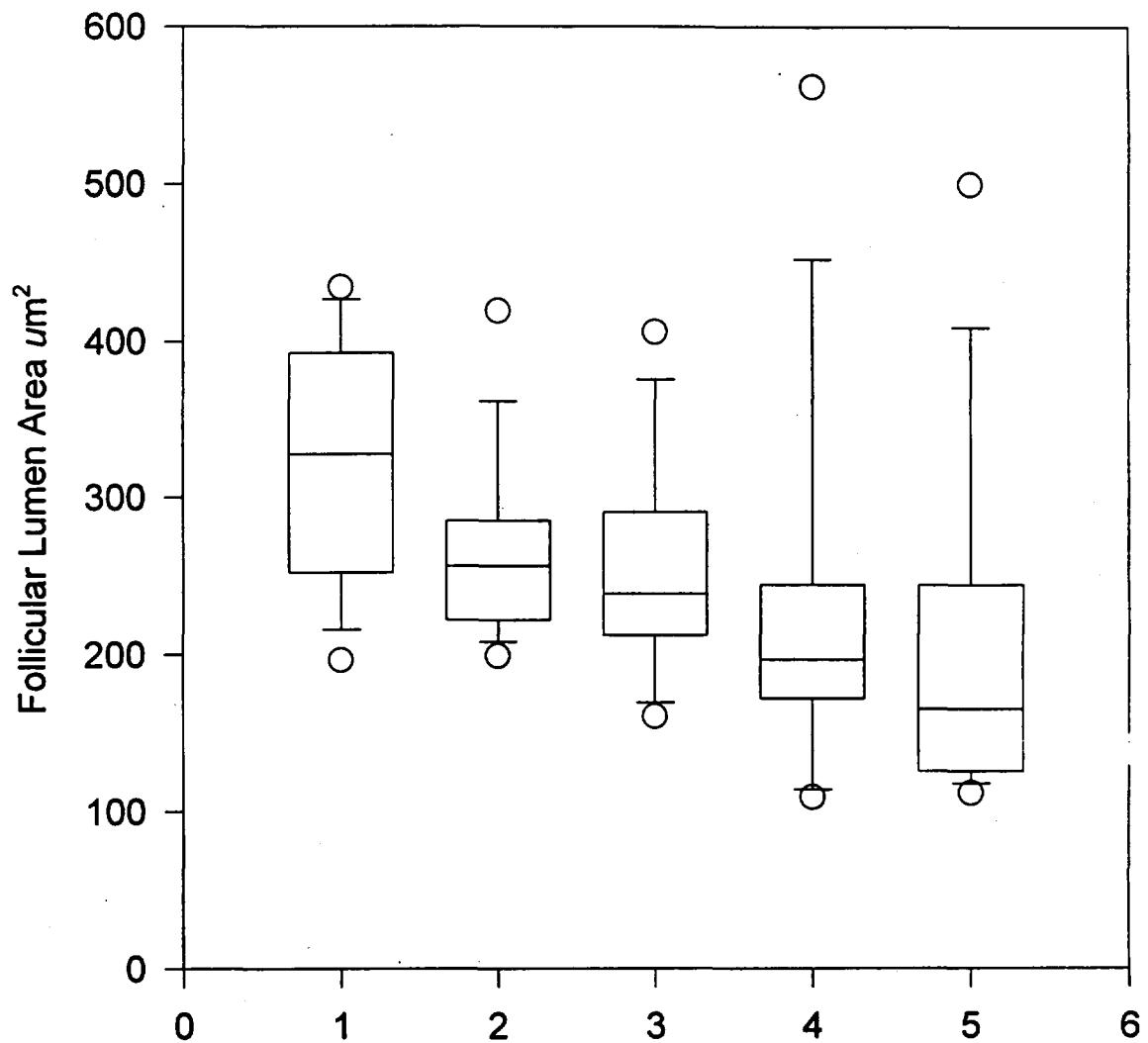
Source of Variance	F	P
Between Treatments	1.60	0.1912
Residual		
Total		

The differences in the mean values among the treatment groups are not great enough to exclude the possibility that the difference is due to random sampling variability; there is not a statistically significant difference (P = 0.191).

**Tab 5a**  
**5-Day Old Rat Pup Study**

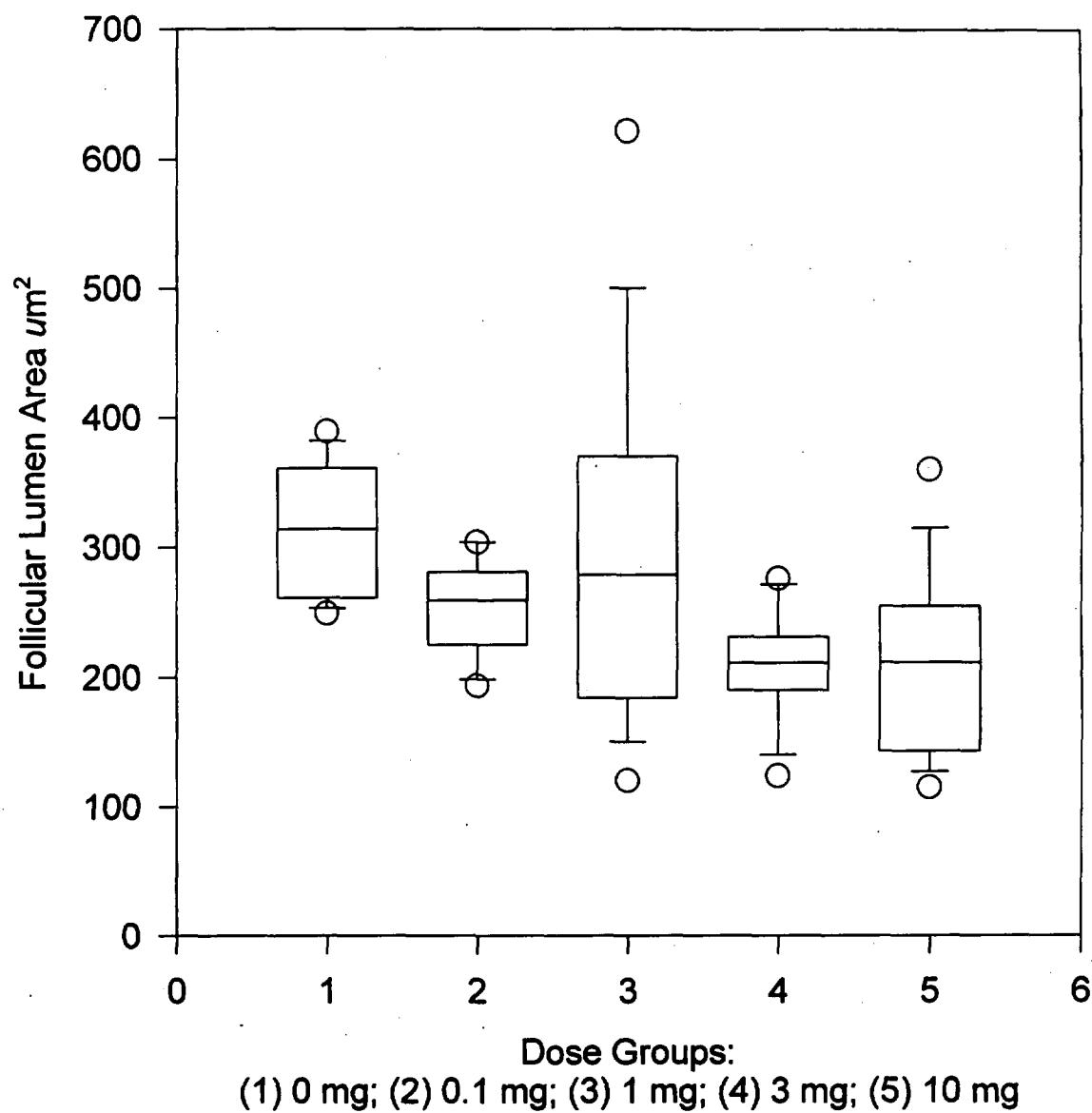


## **Mean Thyroid Follicular Lumen Area Females**



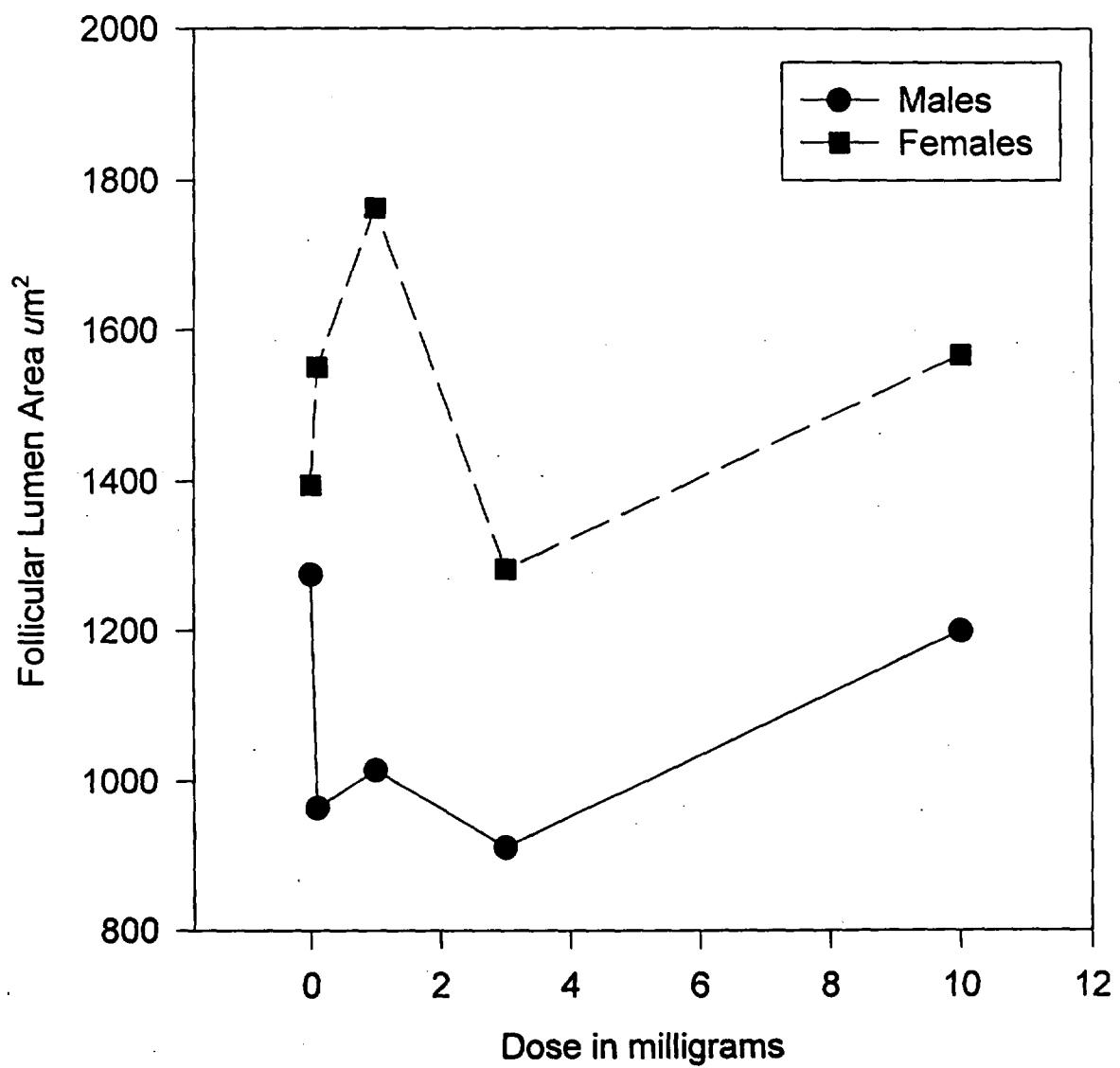
**Dose Groups:**  
(1) 0 mg; (2) 0.1 mg; (3) 1 mg; (4) 3 mg; (5) 10 mg

## **Mean Thyroid Follicular Lumen Area Males**

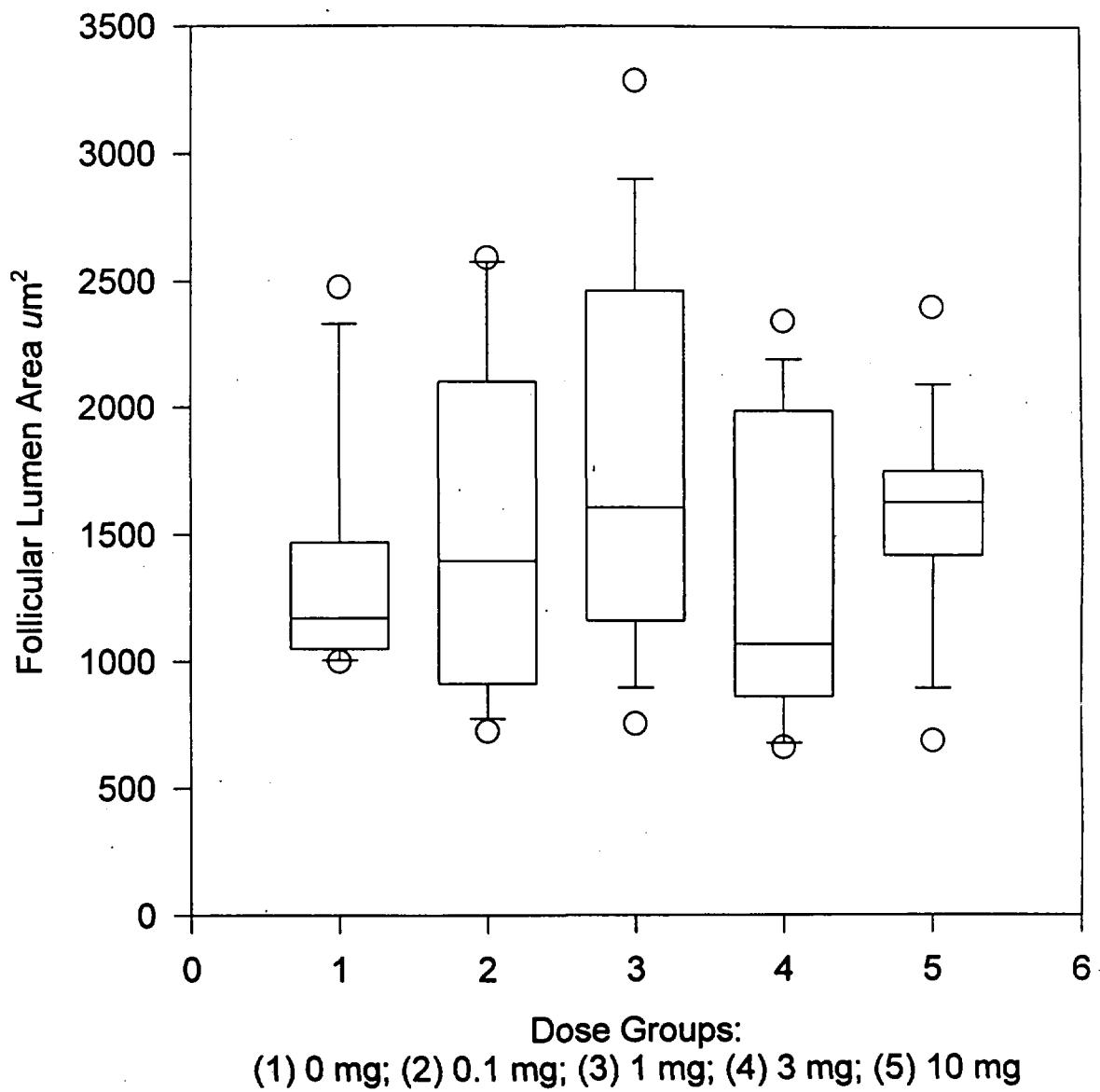


**Tab 5b**  
**PND-90-92 Study**

### **Thyroid Follicular Lumen Area**



### Mean Thyroid Follicular Lumen Area Females



### Mean Thyroid Follicular Lumen Area Males

